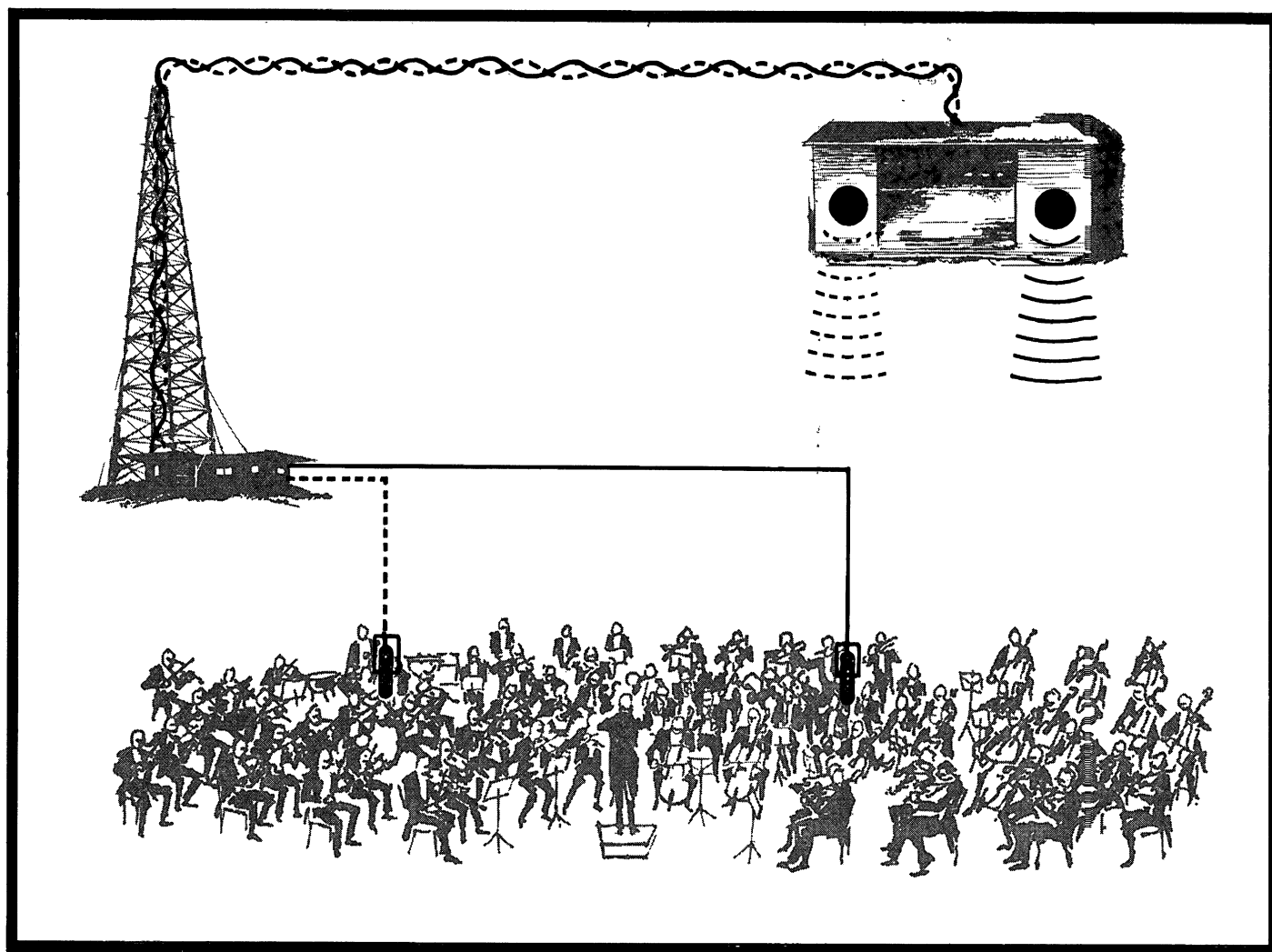


HF-24

HF-24

ZENITH

SERVICE MANUAL



**HIGH FIDELITY
AND STEREO FM MODELS**

ZENITH RADIO CORPORATION

1900 N. AUSTIN AVENUE

CHICAGO, ILLINOIS 60639

PRICE \$1.50

HF-24

PART NO. 923-653

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HF 17 is Zenith No. 923-521
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HF 17-2 is Zenith No. 923-555
 HF 18-2 is Zenith No. 923-592
 HF 21 is Zenith No. 923-626
 RA 7 is Zenith No. 923-631

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
B505B Note 2 (RA7)	Portable (Removable Lid)	Blue & White	—	Phono Only	—	849-48B	8	1-3½
B505F Note 2 (RA7)	Portable (Removable Lid)	Green & White	—	Phono Only	—	849-48B	8	1-3½
A507F Note 2 (HF21)	Portable (With Handle, Lift Lid)	Green	3AT20	Phono Only	—	49-1184	32	1-2x6
A507L Note 2 (HF21)	Portable (With Handle, Lift Lid)	Beige	3AT20	Phono Only	—	49-1184	32	1-2x6
A507V Note 2 (HF21)	Portable (With Handle, Lift Lid)	Coral	3AT20	Phono Only	—	49-1184	32	1-2x6
B525J Note 2 (RA7)	Portable (Removable Lid)	Brown & Beige	—	AM/Phono	—	849-48B	8	1-3½
C526R Note 2 (*)	Portable (Removable Lid)	Rosewood	—	FM/AM/Phono	—	849-66B	8	1-3½
B535J Note 2 (HF21)	Portable (With Handle, Lift Lid, Detachable Speaker Enclosures)	Brown & Walnut	8BT20	Phono Only	2x1W	49-1189	32	2-4
B535J1 Note 2 (HF21)	Portable (With Handle, Lift Lid, Detachable Speaker Enclosures)	Brown & Walnut	8BT20	Phono Only	2x1W	49-1189	32	2-4
B535Y Note 2 (HF21)	Portable (With Handle, Lift Lid, Detachable Speaker Enclosures)	Black & Rosewood	8BT20	Phono Only	2x1W	49-1189	32	2-4
B535Y1 Note 2 (HF21)	Portable (With Handle, Lift Lid, Detachable Speaker Enclosures)	Black & Rosewood	8BT20	Phono Only	2x1W	49-1189	32	2-4

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	POWER INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
Manual Player	Integral	942-8B	S 856-15B	827-18B	—	—	—	—
Manual Player	Integral	942-8B	S 856-15B	827-18B	—	—	—	—
169-450	Integral	142-170	D-S 56-567	S-84995 OR S-85021	—	—	—	—
169-449	Integral	142-170	D-S 56-567	S-84995 OR S-85021	—	—	—	—
169-451	Integral	142-170	D-S 56-567	S-84995 OR S-85021	—	—	—	—
Manual	Integral	942-8B	S 856-15B	827-17B	—	—	—	—
Manual	Integral	942-17B	856-22B	827-21B	—	—	—	—
169-389	Integral	142-171	S-S 56-598	S-72910	—	—	—	—
169-448	Integral	142-171	S-S 56-598	S-72910	—	—	—	—
169-388	Integral	142-171	S-S 56-598	S-72910	—	—	—	—
169-447	Integral	142-171	S-S 56-598	S-72910	—	—	—	—

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
B545W	Portable (With Handle, Detachable Speaker Enclosures)	Walnut	—	Phono Only	2X1W	964-24020	16	2-5½
B553W	Portable (With Handle, Detachable Speaker Enclosures)	Walnut	—	Phono Only	2x4W	964-25775	8	2-6x9
C556W Note 2 (*)	Modular Table (Lift Lid)	Walnut	—	Phono Only	2x10W	849-56B	8	2-6x9
C565W Note 2 (HF22)	Modular Table (Lift Lid) (Circle Of Sound Speakers)	Walnut	16CT21	Phono Only	2x25W	49-1168 49-1214	8 6.4	2-Horn 2-6
C585W Note 2 (*)	Modular Table (Lift Lid)	Walnut	—	FM/AM/Phono	2x10W	849-56B	8	2-6x9
C587W Note 2 (HF22)	Modular Table (Lift Lid)	Walnut	29CT20	FM/AM/Phono	2x25W	49-1168 49-1220	8 8	2-Horn 2-6
C590W Note 2 (HF22)	Modular Table (Lift Lid) (Circle Of Sound Speakers)	Walnut	29CT21	FM/AM/Phono	2x25W	49-1168 49-1214	8 6.4	2-Horn 2-6
C590W1 Note 2 (HF22)	Modular Table (Lift Lid) (Circle Of Sound Speakers)	Walnut	29CT21Z1	FM/AM/Phono	2x25W	49-1168 49-1214	8 6.4	2-Horn 2-6
C906W1 Note 2 (HF23)	Console (Lift Lid)	Walnut	21BT34Z1	FM/AM/Phono	2x10W	49-1094 49-1153	45 16	2-3½ 2-6x9
C907M1 Note 2 (HF23)	Console (Lift Lid)	Maple	21BT34Z1	FM/AM/Phono	2x10W	49-1094 49-1153	45 16	4-3½ 2-6x9
C908DE1 Note 2 (HF23)	Console (Lift Lid)	Dark Oak	21BT34Z1	FM/AM/Phono	2x10W	49-1094 49-1153	45 16	4-3½ 2-6x9
C908P1 Note 2 (HF23)	Console (Lift Lid)	Pecan	21BT34Z1	FM/AM/Phono	2x10W	49-1094 49-1153	45 16	4-3½ 2-6x9
C910W1 Note 2 (HF23)	Console (Lift Lid)	Walnut	21BT34Z1	FM/AM/Phono	2x10W	49-1094 49-1153	45 16	4-3½ 2-6x5
C911W1 Note 2 (HF23)	Console (Lift Lid)	Walnut	21BT34Z1	FM/AM/Phono	2x10W	49-1094 49-1153	45 16	4-3½ 2-6x9

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	POWER INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
169-407	Hinged Shelf	142-175	D-S 56-560	S-72648	—	—	—	—
169-408	Hinged Shelf	142-175	D-S 56-560	S-72648	—	—	—	—
169-409	Shelf	142-172	D-S 56-597	S-78980	—	Note 7	—	Note 6
169-436	Shelf	142-167	D-S S-82621	S-82964	—	Note 7	—	Note 6
169-409	Shelf	142-172	D-S 56-597	S-78980	—	Note 7	—	Note 6
169-445	Shelf	142-167	D-S S-82621	S-72648 OR S-72910	—	Note 7	—	Note 6
169-436	Shelf	142-167	D-S S-82621	S-82964	—	Note 7	—	Note 6
169-436	Shelf	142-167	D-S S-82621	S-82964	—	Note 7	—	Note 6
169-430	Shelf	142-164	D-S 56-580	S-82965	—	Note 7	Yes	Note 5
169-433	Shelf	142-167	D-S S-82621	S-82965	—	Note 7	Yes	Note 5
169-433	Shelf	142-167	D-S S-82621	S-82965	—	Note 7	Yes	Note 5
169-433	Shelf	142-167	D-S S-82621	S-82965	—	Note 7	Yes	Note 5
169-433	Shelf	142-167	D-S S-82621	S-82965	—	Note 7	Yes	Note 5
169-433	Shelf	142-167	D-S S-82621	S-82965	—	Note 8	Yes	Note 5

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
C920W Note 2 (HF23)	Console (Lift Lid)	Walnut	21BT34Z1	FM/AM/Phono	2x10W	49-1094	45	2-3½
						49-1166	8	2-Horn
						49-1218	16	2-10
C921DE Note 2 (HF23)	Console (Lift Lid)	Dark Oak	21BT34Z1	FM/AM/Phono	2x10W	49-1094	45	2-3½
						49-1166	8	2-Horn
						49-1222	16	2-10
C922M Note 2 (HF23)	Console (Lift Lid)	Maple	21BT34Z1	FM/AM/Phono	2x10W	49-1094	45	2-3½
						49-1166	8	2-Horn
						49-1218	16	2-10
C930W	Console (Lift Lid)	Walnut	29CT30	FM/AM/Phono	2x25W	49-1094	45	2-3½
						49-1166	8	2-Horn
						49-1217	8	2-10
C937M	Console (Lift Lid)	Maple	29CT30	FM/AM/Phono	2x25W	49-1094	45	2-3½
						49-1166	8	2-Horn
						49-1217	8	2-10
C939DE	Console (Lift Lid)	Dark Oak	29CT30	FM/AM/Phono	2x25W	49-1094	45	2-3½
						49-1166	8	2-Horn
						49-1217	8	2-10
C947DE1	Console (Lift Lid)	Dark Oak	29CT30	FM/AM/Phono	2x25W	49-1094	45	2-3½
						49-1151	6.4	2-Horn
						49-1203	8	2-8x12
C947DE2 Note 2 (HF22)	Console (Lift Lid)	Dark Oak	27BT30	FM/AM/Phono	2x25W	49-1094	45	2-3½
						49-1151	6.4	2-Horn
						49-1203	8	2-8x12
CT947DE	Console (Lift Lid)	Dark Oak	29CT30	FM/AM/Phono	2x25W	49-1094	45	2-3½
						49-1151	6.4	2-Horn
						49-1203	8	2-8x12
C950W1 Note 2 (HF23)	Console (Lift Lid)	Walnut	25BT22	FM/AM/Phono	2x50W	49-1094	45	4-3½
						49-1162	6.4	2-Horn
						49-1171	6.4	2-12
C950W2 Note 2 (HF23)	Console (Lift Lid)	Walnut	25BT22	FM/AM/Phono	2x50W	49-1094	45	4-3½
						49-1162	6.4	2-Horn
						49-1171	6.4	2-12
CT951M	Console (Lift Lid)	Maple	29CT30	FM/AM/Phono	2x25W	49-1094	45	4-3½
						49-1162	6.4	2-Horn
						49-1171	6.4	2-12
CT951M1	Console (Lift Lid)	Maple	29CT30	FM/AM/Phono	2x25W	49-1094	45	4-3½
						49-1162	6.4	2-Horn
						49-1171	6.4	2-12
CT953DE	Console (Lift Lid)	Dark Oak	29CT30	FM/AM/Phono	2x25W	49-1094	45	4-3½
						49-1162	6.4	2-Horn
						49-1171	6.4	2-12

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	POWER INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
169-438	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 5
169-438	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 7	Yes	Note 5
169-438	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 5
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 5
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 5
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 5
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 4
169-435	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 7	Yes	Note 4
169-435	Shelf	142-167	D-S S-82621	S-82965	Yes	Built-In C631	—	Note 4
169-432	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 7	Yes	Note 4
169-432	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 4
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Built-In C632	—	Note 4
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Built-In C632	—	Note 4
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Built-In C632	—	Note 4

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
CT953DE1	Console (Lift Lid)	Dark Oak	29CT30	FM/AM/Phono	2x25W	49-1094 49-1162 49-1171	45 6.4 6.4	4-3½ 2-Horn 2-12
C966DE Note 2 (HF22)	Console (Lift Lid)	Dark Oak	29AT24 6AT24	FM/AM/Phono	2x80W	49-1073 49-1094 49-1190	6.4 45 6.4	2-15 4-3½ 2-Horn
C966DE1 Note 2 (HF22)	Console (Lift Lid)	Dark Oak	29AT24Z1 6AT24	FM/AM/Phono	2x80W	49-1073 49-1094 49-1190	6.4 45 6.4	2-15 4-3½ 2-Horn
C966P Note 2 (HF22)	Console (Lift Lid)	Pecan	29AT24 6AT24	FM/AM/Phono	2x80W	49-1073 49-1094 49-1190	6.4 45 6.4	2-15 4-3½ 2-Horn
C966P1 Note 2 (HF22)	Console (Lift Lid)	Pecan	29AT24Z1 6AT24	FM/AM/Phono	2x80W	49-1073 49-1094 49-1190	6.4 45 6.4	2-15 4-3½ 2-Horn
C8720W1 Note 2 (HF22)	Console Combination (Lift Lids)	Walnut	27BT30 Note 3	FM/AM/Phono Color TV	2x25W	49-1162 49-1204	6.4 8	2-Horn 2-12
C8720W11	Console Combination (Lift Lids)	Walnut	29CT30 Note 3	FM/AM/Phono Color TV	2x25W	49-1162 49-1204	6.4 8	2-Horn 2-12
C8775P	Console Combination (Lift Lids)	Pecan	29CT30 Note 3	FM/AM/Phono Color TV	2x25W	49-1094 49-1162 49-1177	45 6.4 6.4	2-3½ 2-Horn 2-9x15
C9015W Note 2 (*)	Table Extension Speaker	Walnut	—	—	—	849-70B 849-71B	16 16	1-6x9 1-2½
C9016W Note 2 (*)	Table Extension Speaker	Walnut	—	—	—	—	16 16	1-6x9 1-2½
S9017W1 Note 2 (HF22)	Table Extension Speaker	Walnut	—	—	—	49-1102 49-1166	6.4 8	1-12 1-Horn
B9022W Note 2 (RC2)	Component Record Changer	Walnut	—	—	—	—	—	—
C9024W Note 2 (*)	Component Record Changer	Walnut	—	—	—	—	—	—
C9026W Note 2 (*)	Component Record Changer	Walnut	—	—	—	—	—	—
C9029W	Decoder	Walnut	15WCA10	Amplifier	2x15	49-1168 49-1220	8 8	2-Horn 2-6

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	POWER INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
169-434	Shelf	142-167	D-S S-82621	S-82965	Yes	Built-In C632	—	Note 4
169-364	Shelf	142-167	D-S S-82621	S-82718	Yes	Note 8	Yes	Note 4
169-417	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 4
169-364	Shelf	142-167	D-S S-82621	S-82718	Yes	Note 8	Yes	Note 4
169-417	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 8	Yes	Note 4
169-435	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 7	—	Note 4
169-435	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 7	—	Note 4
169-438	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 7	—	Note 4
—	—	—	—	—	—	—	—	Note 9
—	—	—	—	—	—	—	—	Note 9
—	—	—	—	—	—	—	—	Note 10
169-446	Shelf	142-172	D-S 56-597	S-78979	—	—	—	—
169-446	Shelf	142-172	D-S 56-597	S-78980	—	—	—	—
169-435	Shelf	142-167	S-82621	S-82965	—	—	—	—
—	—	—	—	—	Yes	Yes	—	—

NOTES

1. Stylus: S = Manufactured Sapphire, D = Diamond.
2. Model listed for reference only. For chassis information refer to Service Manual shown in parenthesis ().
(*) Denotes Service Manual number has not been assigned.
3. Refer to Color TV Service Manuals for Color chassis information.
4. Built-in Sound Control Center with external speaker terminals and headphone jack.
5. External speaker terminals.
6. Headphone Jack.
7. Tape Input and Output - May be used with the following:
Model C635 - Cartridge Tape Player,
Model A636 - Cassette Tape Player/Recorder.
8. Tape Input and Output - May be used with the following:
Model C631 - Cartridge Tape Player,
Model C632 - Cassette Tape Player/Recorder,
Model C635 - Cartridge Tape Player,
Model A636 - Cassette Tape Player/Recorder.
9. One pair of Model C9015W Extension Speakers may be used with any Zenith stereo model (not exceeding 15 watts-EIA-per channel) which have external speaker terminals (see notes 4 and 5 above).
10. One pair of Models S9017W or S9017W1 Extension Speakers may be used with any Zenith stereo model which has external speaker terminals (see notes 4 and 5 above).

RECORD CHANGER FEATURES

PART NO.	MFG.	BASE PLATE	TURNTABLE
169-361	(VM)	Tree Bark Brown	Light Beige
169-364	(G)	Bronze Gold	Dark Brown
169-366	(VM)	Tree Bark Brown	Light Beige
169-373	(BSR)	Off White	Yellow
169-374	(BSR)	Off White	Dark Green
169-375	(BSR)	Off White	Gray
169-381	(BSR)	Black	Light Gray and Metal
169-386	(BSR)	Black	Black
169-388	(BSR)	Light Gray	Black
169-389	(BSR)	Off White	Dark Brown
169-392	(VM)	Tree Bark Brown	Light Beige
169-395	(VM)	Dark Brown	Light Beige
169-399	(VM)	Tree Bark Brown	Light Beige
169-403	(VM)	Black	Light Gray and Metal
169-404	(BSR)	Light Gray	Black
169-405	(BSR)	Off White	Dark Brown
169-407	(BSR)	Black	Black
169-408	(BSR)	Silver	Black
169-409	(BSR)	Black	Light Gray and Metal
169-411	(VM)	Tree Bark Brown	Light Beige
169-412	(BSR)	Off White	Yellow
169-413	(BSR)	Off White	Dark Green
169-414	(BSR)	Off White	Gray
169-417	(VM)	Beige	Dark Brown and Nickel Gold
169-430	(VM)	Tree Bark Brown	Light Beige
169-432	(VM)	Tree Bark Brown	Light Beige
169-433	(VM)	Tree Bark Brown	Light Beige
169-434	(VM)	Dark Brown	Light Beige
169-435	(VM)	Tree Bark Brown	Light Beige
169-436	(VM)	Black	Light Gray and Metal
169-438	(VM)	Tree Bark Brown	Light Beige
169-445	(BSR)	Black	Light Gray and Metal
169-446	(BSR)	Black	Black
169-447	(BSR)	Light Gray	Black
169-448	(BSR)	Off White	Dark Brown
169-449	(BSR)	Off White	Yellow
169-450	(BSR)	Off White	Dark Green
169-451	(BSR)	Off White	Gray

SECTION TWO

FM/MX/AM ALIGNMENT AND GENERAL INFORMATION

THEORY

For theory and operation, of circuits not covered in this manual, refer to Service Manuals HF 18 (Zenith Part No. 923-558), HF 19 (Zenith Part No. 923-606), HF 22 (Zenith Part No. 923-642), and HF 23 (Zenith Part No. 923-646).

MULTIPLEX ALIGNMENT

These receivers have been properly aligned at the factory and will not require further adjustment. As a result, it is not recommended that any attempt be made to alter the multiplex stages. However, should any major components in these circuits require replacement or should anyone tamper with the multiplex adjustments then, of course, realignment will be necessary.

MUTING CONTROL

A muting control, which supplies a reverse bias voltage to the base of the 19KHz amplifier, is factory adjusted, and should not require readjustment. However, if the receiver is operated in an extremely noisy area, there is a possibility that there may be noise bursts of sufficient magnitude to overcome this mute voltage . . . when this occurs, the Stereophonic FM Indicator will light up. To further cut off the 19KHz amplifier, carefully rotate the muting control in a clockwise direction. This should only be done when a stereo signal is on the air since the mute control must only be advanced to a point where the Stereo Indicator does not light up on noise, but it should not be advanced to a point where the desired stereo signal is cut off.

ANTENNAS FOR STEREO FM

Due to the characteristics of the stereo FM system, it will require more signal for proper performance than does monaural FM. As a result, it may be necessary to operate the stereo FM receiver with an external antenna. The necessity for an external antenna will be determined by the signal conditions at each individual installation.

EXTERNAL FM ANTENNA

If the receiver is operated in an area of either low signal strength, high noise, or where multipath (FM ghosts) signals are present, a good external FM antenna will be required. The necessity of an external antenna as a result of weak signal or noise, will be quite evident since the set will not limit, and/or noise will be quite evident. It is extremely difficult to determine if multipath (FM ghosts) signals are present, however, should the program material be distorted, the best manner to decide if multipath signals are the cause of the problem, is to connect an external FM antenna to the receiver. Usually a TV antenna may be available for trial, but even then the results can be misleading, since many TV antennas are of low gain on FM frequencies. Reduction of multipath distortion under high signal conditions may be accomplished by relocation of the receivers antenna system.

FM CABINET ANTENNA

Certain models contain an FM antenna built into the cabinet. This antenna is a folded dipole cut to the desired frequency, and is attached to the internal periphery of the cabinet. The following models use line cord antennas: C587, C590, C906 and C906-1.

SIGNAL STRENGTH CHART

There are certain minimum voltages necessary for proper stereo FM reception. To help determine if there is sufficient signal available, the following developed AGC voltage versus microvolt input voltage charts have been compiled. Since the desired FM Station may not always be operating in the stereo mode when an installation is made, these AGC voltage measurements have been taken with a monaural FM signal. The point "*" of minimum AGC voltage necessary for good stereo FM reception has been indicated on these charts.

AGC voltages are to be measured with a V.T.V.M. connected to the following Test Points.

Chassis 29CT20, 29CT21, 29CT21Z1 and 29CT30 — Test Point at Junction of R2, R229; either end of Purple wire at pulley end of gang.

CHASSIS 29CT20, 29CT21, 29CT21Z1, and 29CT30

Micro Volts Input	Reverse AGC Voltage At Gate 2 of FM RF
0	5.7
25	4.5
100	2.8
200	2.2
500	1.5
1K	*-0.96
5K	-0.22
50K	-1.10
100K	-1.20

AUTOMATIC FREQUENCY CONTROL-AFC

These receivers feature an automatic frequency control which automatically keeps your receiver on the exact station frequency when you are tuned to an FM station. To utilize this feature tune the receiver as instructed and then turn the band switch to AFC position.

When the desired FM station is a weak station, adjacent in frequency to a strong station, the AFC may pull the tuning into the stronger station. Under these conditions, place the bandswitch in FM position and tune the receiver as instructed.

Tuning the receivers on the frequency modulation band will require more care than on the broadcast band. A hissing sound may be noted when tuning between Frequency Modulation stations. This is normal, and will disappear as the station is tuned in. After a station is located, the pointer should be moved back and forth over it until the point of quietest reception and best tone quality is found. Correct tuning is indicated by the disappearance of background noise.

SPEAKER PHASING

It is most important that coded speaker leads be connected to coded terminals on speakers for proper polarity within each speaker group. It is also then most important that the speaker groups be in phase with each other. One excellent method is to play a monaural record with the volume of each speaker group equal.

Under these conditions the sound should appear to come from a point midway between the two speaker groups. If the sound comes from any other point than midpoint, then one speaker group is out of phase with the other and you should check polarity. One of the easiest methods of checking polarity within the speaker group is to momentarily place a 4½ volt battery across the speaker feed terminals. All the speaker cones should simultaneously move in the same direction.

POWER AMPLIFIERS

Power transistors and their circuits are unique in operation, therefore, repair procedure differs from those steps followed when repairing tube type-circuits.

1. Each channel of the following amplifiers use a pair of matched power transistors in the final output stage. Therefore, should one transistor fail, both transistors must be replaced simultaneously, since they will not perform properly unless matched. (In chassis using complementary symmetry circuits a matched pair consists of one NPN and one PNP transistor.) (In chassis using quasi-complementary symmetry circuits, the outputs consist of two matched NPN's. The drivers, which are matched NPN and PNP, should also be replaced as matched pairs): 3AT20, 6AT24, 8BT20, 15WCA10, 16CT21, 21BT34, 21BT34Z1, 27BT30, 29CT20, 29CT21, 29CT21Z1, 29CT30, B545 and B553.
2. When a power transistor is replaced the insulator (when used) between the transistor and the heat sink should also be replaced. On the following be certain to apply Dow Corning No. 340 heat conductive grease between the transistor and the insulator. Also between the insulator and the chassis. The Dow Corning grease can be obtained in 1 c.c. quantities by ordering part No. 205-51: 6AT24, 15WCA10, 16CT21, 21BT34, 21BT34Z1, 27BT30, 29CT20, 29CT21, 29CT21Z1, and 29CT30.
3. On the following place the heat conductive grease in the clamp, or on the chassis, and all around the transistor: 8BT20, B545, and B553 (early production).
4. Do not operate these amplifiers without their proper speaker load.
5. Do not short out the audio output of either channel when the amplifier is operating.
6. Should a power transistor fail (short) be certain to replace the emitter resistors for the specific channel. Also be cer-

tain to check the condition of the silicon diode rectifiers, and driver transistors.

7. Remove plug-in transistors from their sockets before doing any soldering to the socket lugs.

CIRCUIT BOARD COMPONENT IDENTIFICATION

As a special feature to aid the Service Technician, Zenith has identified the location of components which are mounted on certain circuit boards. This information is printed on the circuit boards and also appears on the schematic. Zenith has also prepared a two-color drawing of the Foil side of the circuit board showing the relationship between the components and the foil. This will aid the Technician in quickly tracing circuits, as not only are the components shown, but also the voltages at various check points. Components are identified by a letter/number combination. A letter prefix to indicate the type of component: C=Capacitor, L=Coil, R=Resistor, CR=Diode, etc. The numbers are assigned in blocks to identify the circuit, in which it is used, as follows.

Block	Stage	Example
1 - 99	FM Tuner	R1, C1, L1.
101 - 199	AM Tuner	R101, C101, L101.
201 - 299	IF	R201, C201, L201.
301 - 399	Multiplex	R301, C301, L301.
401 - 449	Audio, Right Channel	R401, C401, L401.
451 - 499	Audio, Left Channel	R451, C451, L451.
501 - 599	Power Supply	R501, C501, L501.
601 - 699	Switching Circuits	R601, C601, L601.

CIRCUIT BOARD SERVICING

Servicing circuit board sets is, in general, much the same as servicing ordinary receivers. However, certain tools and techniques are helpful for this type of work.

1. Good pair of long-nose pliers.
2. Sharp wire cutters.
3. Small stiff glue brush (for solder removal).
4. Metal pick (soldering aid).
5. Pencil type soldering iron with a small tip (25 watts or less).
6. Tin leads on component before soldering.
7. Use only solder with an extremely low melting point, (60% Tin, 40% Lead).

WARNING: Excessive heat may damage the circuit board foil during component replacement if a soldering pencil, iron or gun of higher wattage rating is used.

COMPONENT REPLACEMENT

Resistors and capacitors should be replaced by clipping out the defective part and neatly soldering in the new part. If a unit, such as the oscillator coil or I.F. transformer is to be removed, heat the mounting lugs with a pencil type soldering iron and move them away from the soldered connection with a long-nose pliers or metal pick. Continue heating the lugs and brush away the molten solder with a small stiff glue brush. Remove the defective unit before lifting it off the chassis. Before inserting the new unit, be certain that the lug holes are open and free from solder. Forcing a lug against a solder filled lug hole may break the bond between the chassis base and the wiring foil. It is, therefore, necessary to exercise care when replacing units.

An open or damaged section of circuit board wiring foil can be repaired by soldering a short jumper wire across the points to be connected. When soldering the low voltage electrolytics, transistors and diodes, the wire should be held with a pair of long nose pliers. The long nose pliers will act as a heat sink.

TROUBLE SHOOTING AND SIGNAL TRACING

The old technique of "screwdriver testing" is definitely not recommended while trouble shooting any solid state product. In that method various circuit points were touched or shorted to ground to cause a hum or click in the speaker. This must be avoided because a solid state component can be destroyed if excessive voltage or if wrong voltage polarity is applied. Only standard point to point signal tracing with the proper RF, IF, and Audio Signal Sources should be used.

RESISTANCE MEASUREMENTS

When making resistance measurements in the circuit, it is most important to remove any transistors in the circuit under test for accuracy in readings. Incorrect or inaccurate resistance measurements are the result of a transistor acting as a diode and conducting. When making measurements across an electrolytic capacitor, be certain the ohm meter leads are correctly polarized. Also, be certain the battery voltage of the meter does not exceed the working voltage of the capacitor; the capacitor may otherwise be damaged.

FM ALIGNMENT

Alignment of these chassis will, in most cases, not be necessary unless an RF or IF transformer is replaced or if someone has tampered with the adjustment.

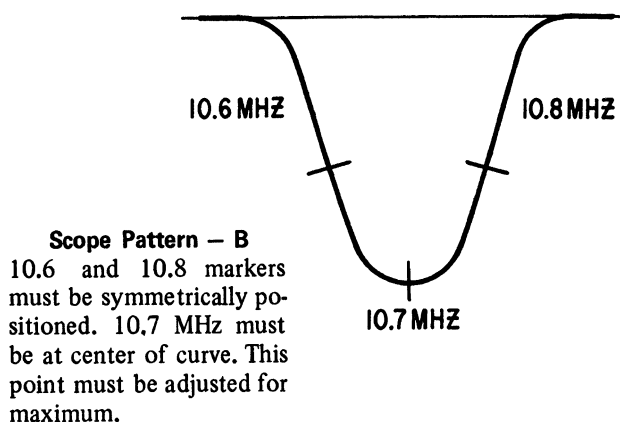
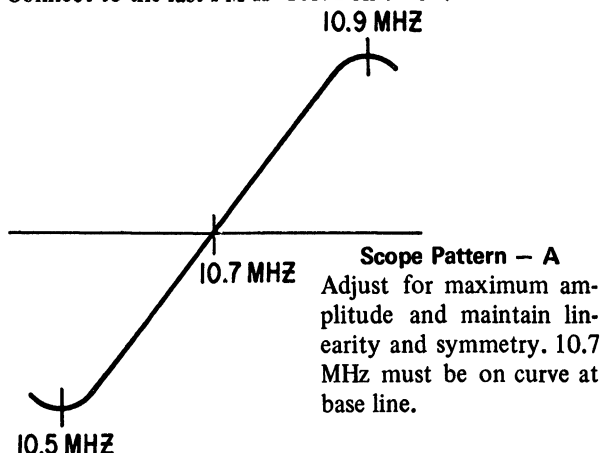
Because of the wide band pass required in the multiplex FM tuner, it is desirable to use an FM signal generator having a deviation of 400 KHz with a sweep rate of 60 Hertz as well as an oscilloscope when aligning both the IF and RF FM portions of this receiver. It is not only necessary to obtain maximum amplitude in the IF amplifier stages, but also necessary to maintain symmetry. To help achieve this symmetry, it is desirable to have 10.6, 10.7 and 10.8 megacycle markers in obtaining IF curve symmetry.

The condenser mentioned further on in the alignment procedure should be as small as possible and the ground lead of the generator must be connected to the chassis at the base of the socket, where the signal is being injected. Should the signal be injected at some point other than a socket, then the ground lead should be connected to ground as closely as possible to this point.

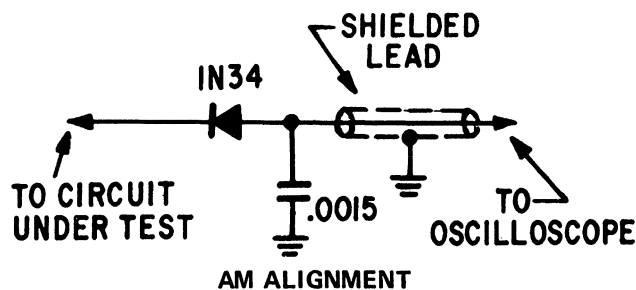
In all alignment procedures, the signal generator output should be kept just high enough to obtain an indication. This is most necessary, since on some chassis we have a zero time constant limiter which will clip the signals if their magnitude is too great, resulting in erroneous waveforms.

In the following alignment procedure charts there is a letter appearing in the operation column in addition to the number. This letter indicates the test point to which the hot lead of the scope is to be connected as follows:

- A. Connect to Ratio Detector Test Point "H".
- B. Connect to the last FM IF Test Point "G".



A detector probe is required. If your oscilloscope is not equipped with this probe, it can easily be constructed. For best results, this probe should be shielded.



- C. A V.T.V.M. on low AC scale connected across the speaker voice coil output terminals (either left or right channel), will be satisfactory for all AM, IF and RF adjustments.

Normally the Oscillator, RF and Mixer Coils and Transformers will not require adjustment unless they have been replaced or misaligned. If alignment becomes necessary the Oscillator Coil should be adjusted at 535 KHz with the tuning gang closed. Adjust the RF and Mixer Transformers at 600 KHz. These adjustments should be made after the corresponding trimmer adjustment shown in the alignment charts. Repeat the corresponding coil and trimmer adjustments for best results.

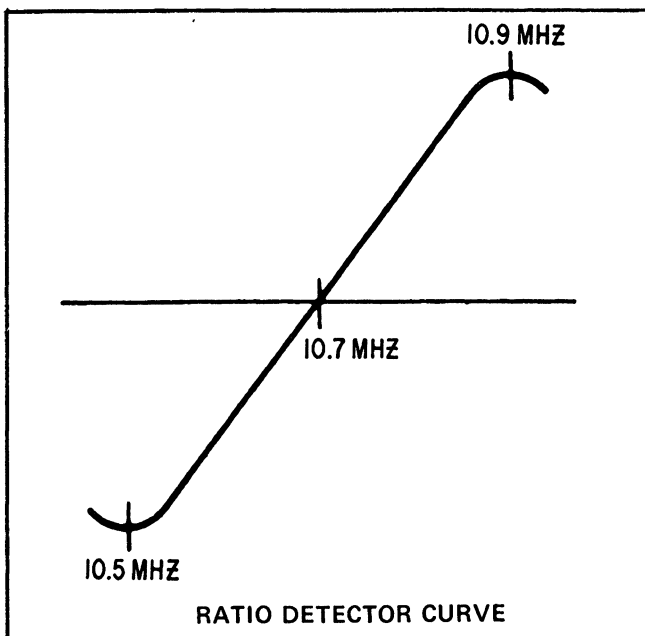
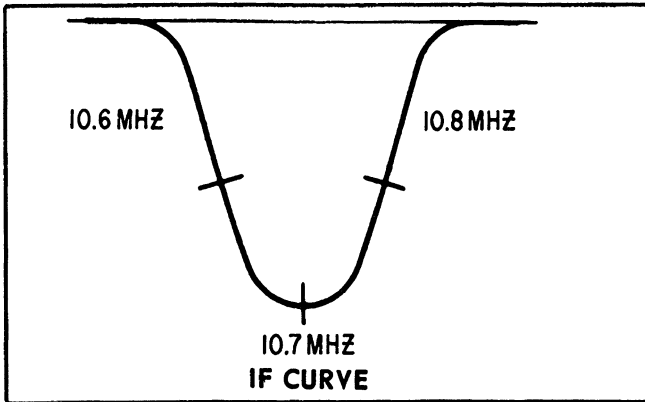
RF AND IF ALIGNMENT PROCEDURE FOR CHASSIS 29CT20, 29CT21, 29CT21Z1, AND 29CT30

OPERA- TION *	CONNECT GENERATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE	
NOTE: For AM Alignment Use A Signal With 400 Hertz Modulation								
1C	One turn loosely coupled to wavemagnet		455 KHz	AM	600 KHz	L203, L204, L207,L210,L215	Align IF channel for maximum output	
2C			1600 KHz	AM	1600 KHz	C1K	Set oscillator to dial scale	
3C			600 KHz	AM	600 KHz	L103		
4C			Repeat Operations No. 2 & 3				Align RF stage	
5C			1400 KHz	AM	1400 KHz	C1H		
6C			600 KHz	AM	600 KHz	L106		
7C			Repeat Operations No. 5 & 6				Align antenna stage.	
8C			1400 KHz	AM	1400 KHz	C1F		
NOTE: For FM Alignment Use A Signal With 400 KHz Deviation								
9A	Term. No. 5 of T205 3rd IF Trans. Test Point "G"	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capaci- tor.	10.7 MHz	FM	Gang Closed	L212	Adjust Primary and Secondary of ratio detector for maximum amplitude and symmetry, as shown in Scope Pattern "A"	
10A			10.7 MHz	FM	Gang Closed	L214		
11B	Term. No. 3 of T203 2nd IF Trans. Test Point "F"		10.7 MHz	FM	Gang Closed	L208 & L209	Align I.F. transformer for maximum output and symmetry. This pattern is not necessarily identical to the overall Scope Pattern "B"	
12B	Term. No. 4 of T201 1st IF Trans. Test Point "E"		10.7 MHz	FM	Gang Closed	L205 & L206		
13B	Connect to Test Point "D"		10.7 MHz	FM	Gang Closed	L201 & L202		
14B			10.7 MHz	FM	Gang Closed	Readjust L201, L202, L205, L206, L208 & L209	Align I.F. transformer for maximum output and symmetry as indicated in Scope Pattern "B"	
NOTE: In Steps 13B and 14B Generator ground Must be Connected On Braid As Close To Gang As Possible								
15B	FM Antenna Post (Remove Antenna) Test Point "A"		300 ohm	106 MHz	FM	106 MHz	C13	Set oscillator to dial scale
16B		90 MHz		FM	90 MHz	L4		
17B		Repeat Operations 15B & 16B				Align FM Detector stage for maximum		
18B		106 MHz		FM	106 MHz		C1C	
19B		90 MHz		FM	90 MHz	L2 if necessary	Align FM Antenna stage for maximum	
20B		106 MHz		FM	106 MHz	C1A		
21B		90 MHz		FM	90 MHz	L1 if necessary		
22B		Repeat Operations 15B thru 21B						

SECTION THREE

MULTIPLEX ALIGNMENT PROCEDURE

Using the Zenith FM multiplex signal generator, the multiplex portion of Zenith or any FM multiplex receiver can be aligned, but first before any attempt is made to do this it is necessary that the technician be certain that the RF, IF, and ratio detector alignment is correct, and that the receiver operates normally on monaural signals.



Because of the wide band pass required in the multiplex FM receiver, it is desirable to use an FM signal generator having a deviation of at least 200 KHz with a sweep rate of 60 Hertz, as well as an oscilloscope. During the IF and ratio detector alignment it is not only necessary to obtain maximum gain, but also extremely important to maintain symmetry.

To help achieve this IF curve symmetry 10.6 and 10.8 megahertz markers must be symmetrically positioned and the 10.7 megahertz marker must be at the center of the curve. When aligning the ratio detector, 10.5 and 10.9 megahertz markers are desirable to achieve S curve symmetry. The pattern illustrating marker use to obtain S curve symmetry indicates it is most necessary to adjust for maximum gain and at the same time maintain linearity and symmetry. 10.7

megahertz must be on the curve at the reference line. 10.5 megahertz and 10.9 megahertz must be at the lower and upper turn of the S curve respectively. Only when the I.F. and ratio detector circuitry have been aligned in accordance with these specifications should the technician proceed to align the multiplex portion of the receiver.

Preliminary Procedures

Before using the Zenith FM multiplex signal generator, it is recommended that it be connected to the power source and turned on giving it a 10 to 20 minute warmup period. This will allow ample time for the RF, audio, and 19KHz oscillators to stabilize.

The following procedure is only necessary when the generator has been received from the factory, or has been subjected to a great deal of handling or transportation vibration. Although the 19KHz pilot generator oscillator is extremely stable, there is always the possibility that it could shift from its precisely assigned frequency. As a result, we have a very simple method to check the 19KHz pilot frequency using an FM multiplex receiver and FM multiplex station as a frequency standard. Proceed as follows:

1. Tune your FM multiplex receiver to an FM multiplex station and when the pilot indicator lights up, this indicates the 19KHz pilot amplifier is functioning. Since the 19KHz sine wave is from the transmitter it must be on frequency and can be used as a reference standard. With a cable connect the collector output of the 19KHz amplifier to the vertical input of a good oscilloscope.
2. On the multiplex generator set the pilot carrier amplitude control to 10%. Place L-R, L+R and 67KHz switches in OFF position and connect the composite output terminal directly to the horizontal input of the oscilloscope. On the oscilloscope you will see an oval Lissajous figure which should be motionless when the 19KHz output of the generator is synchronized with the 19KHz signal from the transmitter. Should the Lissajous figure rotate it will only be necessary to adjust the pilot carrier frequency trimmer on the multiplex generator with an IF alignment wrench until the Lissajous figure ceases to rotate. After the generator has been adjusted to zero beat, disconnect all cable.

This multiplex generator provides a composite multiplex signal as well as an RF signal, FM modulated by the composite multiplex signal. The composite signal is very useful since it is an excellent tool that can be used in signal tracing the multiplex portion of the receiver. We do not recommend that multiplex alignment be made using only the composite signal injected at the output terminal of the ratio detector tertiary winding, since there is always some phase shift occurring in the RF, IF or ratio detector circuits. As a result, multiplex alignment made by a signal injected at the ratio detector would not be correct. For proper multiplex alignment the composite signal must FM modulate the RF carrier and then be fed into the FM antenna terminals. With the signal injected

in this manner the multiplex alignment would then be the best that could possibly be obtained and separation would be the maximum for this receiver.

The RF carrier in this generator is variable from 88 to 108MHz. The RF signal should be injected at a point in the FM band where no other signal is present. If at all possible this should be at a frequency near the middle of the FM band. Tune the FM receiver to this point and adjust the RF frequency adjusting slug on the generator to this same frequency. The AGC voltage developed in the receiver should be maximum. AGC voltage substantially less than this will indicate the RF frequency adjusting slug is tuned to an image.

19KHz Sub Carrier Amplifier, Doubler and Mute Adjustments

1. Turn generator 19KHz pilot carrier amplitude control to 10% position.
2. Connect the V.T.V.M. (DC scale) and/or scope to the junction of the two frequency doubling diodes and chassis (test point "N").
3. Place the stereo-monaural switch in stereo position and short Test Point "T" to ground.
4. Adjust the 19KHz amplifier transformer and the doubler transformer for maximum output. Simultaneously adjust the mute control so the voltage at the junction of the two frequency doubling diodes never exceeds -.2 volt during this operation. This voltage must be kept at a minimum for proper alignment. The three controls in this paragraph have an effect on each other. Should the stereo indicator light up, readjust the mute control to extinguish the lamp and continue adjustment of the transformers for maximum.
5. Remove ground from Test Point "T".
6. Turn generator pilot carrier amplitude control to 5% position.
7. Slowly rotate the mute control to a point where the stereo indicator lights up.

Separation Adjustments

1. Place stereo monaural switch in Stereo position.
2. Turn generator pilot carrier amplitude control to 10% position.
3. Move L-R and L+R generator switches from OFF position to L-R and L+R positions.
4. Connect a V.T.V.M. (AC scale) and/or scope to the L audio output, after the 38KHz filter.
5. Adjust the 38KHz detector transformer for maximum voltage at L output. The magnitude of this signal should be much greater than that at the R output. The voltage at the L output should be approximately 10 times or greater than at the R output.

TROUBLE-SHOOTING

Should a problem arise in aligning the FM multiplex portion of the receiver and the technician does not know whether the difficulty lies in the RF, IF, limiter and ratio detector portions of the receiver, or whether the difficulty lies in the multiplex

portion, the multiplex generator can be used as an excellent signal tracing device to determine if the multiplex section of the receiver is functioning properly. The composite output of the multiplex generator can be injected at the output of the ratio detector.

To reduce possible extraneous signals coming through the ratio detector, short the ratio detector primary with a jumper lead. The wave forms and their magnitude may vary slightly from chassis to chassis, however, they are quite indicative of what will be seen when signal tracing the multiplex circuitry.

67KHz Signal Tracing

1. Turn generator pilot carrier amplitude control to zero.
2. Move L+R and L-R switches to OFF position.
3. Move 67 KHz generator switch from OFF position up to 67KHz. Sequentially connect an oscilloscope to the input and output of the 67KHz trap. The 67KHz signal at the output of the trap if it is properly nulled, will be much smaller than at the input. The voltage ratio should be approximately 20 to 1 input to output.

19KHz Signal Tracing

1. Move the 67KHz generator switch to OFF.
2. Rotate the generator 19KHz pilot carrier amplitude control to 10% position.
3. Sequentially connect your scope to the base of composite amplifier, base of 19KHz amplifier and collector of 19KHz amplifier. The amplitude of the 19KHz signal should greatly increase as you proceed along the 19KHz chain.

Doubler and Subcarrier Signal Tracing

To determine if the doubler is functioning, place your scope at the junction of the two diodes and you will see 38KHz DC pulses. Placing the scope at the collector of the subcarrier amplifier, you should see a 38KHz sine wave which will indicate that the subcarrier amplifier and associated ringing circuitry is functioning properly.

Multiplex Detector Signal Tracing

1. Leave the 19KHz amplitude control at 10%.
2. Move the L - R generator switch from OFF position to L - R position. You should see equal amplitude 1000 hertz sine waves at both L and R outputs.
3. Move the L+R switch from OFF up to L+R and look at the L audio output, and measure the magnitude of the 1000 Hertz sine wave. If the multiplex detector and preceding circuitry are aligned properly, the magnitude of the wave form at L should be greater than at R.

If all the waves are similar in form and magnitude to those indicated, then it can be assumed that the multiplex portion of the receiver is functioning properly and the problem lies ahead of this in the FM receiver. If any of the wave forms are missing at a latter point but are apparent at a previous point, then something is amiss in the circuitry between the two test points.

NOTES

NOTES

PARTS LIST

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 15WCA10					
11-259	Line Cord	2.30	*121-889	Transistor — Driver (2 Req.)	
*12-5880	Chassis Support Bracket (2 Req.)		125-140	Line Cord Retaining Bushing (2 Req.)	.10
19-492	Wire Retaining Clip (3 Req.)	.05	*136-25	Fuse — With Leads (.750 Amp.)	
22-2939	680 PF Ceramic Disc Capacitor — 500V. (6 Req.)	.25	205-51	Silicone Grease (Part of 800-362)	.16
22-3034	.05 MF Ceramic Disc Capacitor — 25V. (2 Req.)	.45	212-71	Silicon Rectifier (2 Req.)	1.25
22-3599	.015 MF Mylar Capacitor — 50V. (2 Req.)	.30	*800-364	Transistor — Audio Output (2 Matched Pair Req.)	
22-3661	.05 MF Ceramic Disc Capacitor — 100V.	.25	*S-91190	Phase Switch, Jack & Plate Assem.	
22-3687	1 MF Electrolytic Capacitor — 50V. (2 Req.)	1.50	CHASSIS 29CT20		
22-3721	200 MF Electrolytic Capacitor — 35V. (2 Req.)	2.25	12-5710	Escutcheon Mtg. Plate (Metal Stamping)	
22-3891	.0068 MF Capacitor — 100V. (4 Req.)	.30	12-5739	Dial Scale Metal Stamping Bracket	
22-3973	100 MF Electrolytic Capacitor — 25V. (2 Req.)	1.30	19-480	Wire Retaining Clip	.03
22-4572	500 MF Capacitor — 15V.	1.60	19-485	Cable Retaining Clip (2 Req.)	.10
22-5091	2 MF Electrolytic Capacitor — 15V. (2 Req.)	.80	20-1256	Trap Coil	1.05
22-5860	.82 MF Mylar Capacitor — 100V. (2 Req.)		20-1649	FM Oscillator Coil	.50
22-5862	.1 MF Capacitor — 100V. (2 Req.)	.35	*20-3076	FM Antenna Coil	1.75
22-6005	.01 MF Ceramic Disc Capacitor	.40	*20-3080	Trap Coil — 67 KHz	.50
22-6112	1000 MF Electrolytic Capacitor — 65V.	3.15	-OR-		
*22-6707	7 MF Electrolytic Capacitor — 10V. 30%		S-79435	Trap Coil — 67 KHz	1.10
*33-397	Printed Circuit Board Frame		22-13	.0033 MF Ceramic Disc Capacitor $\pm 10\%$ 500V. (1 Used on Ea. Chassis & Wave Magnet Assem.)	.25
52-1287	3 Conductor Cable (Used on S-91190)	.15	22-14	.0047 MF Ceramic Disc Capacitor $\pm 10\%$ 500V. (3 Req.)	.25
52-1642	2 Conductor Cable (Used on S-91190)	1.05	22-18	.0022 MF Ceramic Disc Capacitor $\pm 10\%$ 500V. (5 Req.)	.25
*52-1991	Shielded Cable & Plug (Used on 85-1212)		22-2428	1.8 PF Gimmick Capacitor 500V.	.25
54-139	3/8 — 32 x 9/16 Palnut (1 Used on Ea. 63-7681, 63-7682, 63-7683 & 63-9000)	.03	*22-2592	3.4 MF Ceramic Disc Capacitor 25V.	.25
54-334	Tinnerman Speed Nut (1 Used on Ea. 114-1144)	.03	22-2729	.001 MF Ceramic Disc Capacitor 25V. (5 Req.)	.25
63-1708	15 Ohm Resistor — 1/2W. 10% (2 Req.)	.17	22-2884	5 MF Electrolytic Capacitor 12V. (2 Used on Ea. Chassis & P.C. Board — Audio Amp.)	1.50
63-1740	82 Ohm Resistor — 1/2W. 10% (2 Req.)	.17	22-3034	.05 MF Ceramic Disc Capacitor 25V. (12 Req.)	.45
63-1768	390 Ohm Resistor — 1/2W. 10% (2 Used 63-7683)	.17	22-3080	.005 MF Ceramic Disc Capacitor 25V. (2 Req.)	.25
63-1774	560 Ohm Resistor — 1/2W. 5% (2 Req.)	.17	22-3177	390 PF Ceramic Disc Capacitor 500V. (2 Req.)	.25
*63-1777	680 Ohm Resistor — 1/2W. 5% (2 Req.)		22-3255	330 PF Ceramic Disc Capacitor — 500V. (2 Req.)	.25
63-1792	1500 Ohm Resistor — 1/2W. 10%	.17	22-3310	2.7 PF Disc Capacitor — 500V. (2 Req.)	.25
63-1798	2200 Ohm Resistor — 1/2W. 5% (2 Req.)	.34	22-3362	560 PF Disc Capacitor — 500V. (2 Used on Ea. Chassis & P.C. Board — Audio Amp.)	.25
63-1810	3900 Ohm Resistor — 1/2W. 10% (2 Req.)	.17	22-3381	39 PF Ceramic Disc Capacitor — 500V. (2 Req.)	.45
63-1817	5600 Ohm Resistor — 1/2W. 10% (2 Req.)	.17	22-3393	.01 MF Disc Capacitor — 25V. (5 Req.)	.25
*63-1827	10K Ohm Resistor — 1/2W. 10% (4 Req.)		22-3415	.0068 MF Disc Capacitor — 25V.	.25
63-1831	12K Ohm Resistor — 1/2W. 10% (2 Req.)	.17	22-3541	3.3 PF Gimmick Capacitor (Used on S-89122)	.25
63-1838	18K Ohm Resistor — 1/2W. 10% (2 Req.)	.17	22-3652	.1 MF Ceramic Disc Capacitor — 10V. (2 Req.)	.30
*63-1860	62K Ohm Resistor — 1/2W. 5% (2 Req.)		22-3675	10 PF Disc Capacitor — 500V. (2 Req.)	.25
*63-1918	1.5 Megohm Resistor — 1/2W. 10% (2 Req.)		22-3687	1 MF Electrolytic Capacitor — 50V. (2 Used on Ea. Chassis & P.C. Board — Audio Amp.)	1.50
63-1925	2.2 Megohm Resistor — 1/2W. 10% (2 Req.)		*22-3751	20 MMF Ceramic Disc Capacitor — 500V.	.30
63-1933	3.3 Megohm Resistor — 1/2W. 20%	.17	22-3770	5.5 PF Disc Capacitor — 500V.	.30
*63-5930	.47 Ohm Resistor — 1W. 10% (4 Req.)		22-3896	5 MF Electrolytic Capacitor — 25V.	1.00
63-6105	6800 Ohm Resistor — 1W. 10%	.15	22-4573	1K MF Capacitor (Used on P.C. Board — Audio Amp.)	.50
63-7681	Dual Treble Control	2.60	22-4819	2 PF Disc Capacitor — 500V.	
63-7682	Dual Bass Control	2.50	22-4855	Trimmer Capacitor (1.7 to 10 PF Ceramic Trim Capacitor)	.45
63-7683	Dual Loudness Control	2.95	22-5056	.02 MF Disc Capacitor — 25V.	.20
*63-9000	Balance Control		22-5316	500 MF Electrolytic Capacitor (2 Used on P.C. Board — Audio Amp.)	2.55
64-1033	Grip Eyelet (40 Used on P.C. Board)	.03	22-5482	680 PF Disc Capacitor — 500V. (5 Used on Chassis, 2 Used on P.C. Board—Audio Amp.)	.25
64-1046	Grip Eyelet (60 Used on P.C. Board)	.03	22-5486	10 MF Electrolytic Capacitor — 6V.	.95
*78-2066	Pilot Light Bulb (With Mtg. Clip)		22-5780	270 PF Polystyrene Capacitor — 500V.	.15
79-174-12	No. 18 Sleeving — Yellow (5 Req.)	.03	22-5781	1000 PF Capacitor — 500V. (2 Req.)	.15
83-6192	5 Lug Terminal Strip	.15	-OR-		
*83-8298	Insulating Strip (2 Req.)	.15	22-3613	1000 PF Capacitor — 500V. (2 Req.)	.50
*85-1212	Rocker Switch (Main — Aux.)		22-5782	2200 PF Capacitor — 500V.	.15
*85-1274	Rocker Switch (Decoder)		22-5814	.022 MF Mylar Capacitor — 50V. (4 Req.)	.30
*85-1275	Rocker Switch (On-Off)		22-5863	.047 MF Cap. (4 Used on P.C. Board — Audio Amp.)	.40
*85-1296	Slide Switch (Part of S-91190)		*22-5866	.047 MF Cap. (4 Used on P.C. Board — Audio Amp.)	.40
86-543	Miniature Spring Terminal (18 Used on P.C. Board)	.03	22-5884	.082 MF Mylar Capacitor — 100V. (6 Req.)	.35
94-1545	Nylon Shoulder Bushing (4 Req.)	.10	22-5972	390 PF Capacitor — 125V.	.15
*95-2981	Auto Transformer (2 Req.)		22-5986	50 MF Capacitor (2 Used on P.C. Board—Audio Amp.)	1.10
*95-3008	Power Transformer		*22-6245	6 Section Variable Capacitor—FM Antenna Trimmer— FM Tuning—FM Detector Trimmer—FM Detector Tuning—FM Oscillator Tuning—AM Antenna Tuning —AM Antenna Trimmer—AM Detector Trimmer—AM Detector Tuning—AM Oscillator Trimmer—AM Oscil- lator Tuning	1.06
100-249	Pilot Light Bulb	.18			
*103-222	Zener Diode (2 Req.)				
112-793	6-20 x 1/4 Phillips Rd. Hd. Self-Tap. Screw (4 Req.)	.03			
*114-159	6-18 x .250 Hex Hd. Screw (6 Req.)				
114-802	8-18 x 5/16 x 1/4 Hex Washer Hd. Self-Tap. Screw (2 Req.)	.03			
114-806	8-18 x 1/4 x 1/4 Hex Washer Hd. Self-Tap. Screw — Stat. Bronze (2 Req.)	.03			
*114-1144	4-24 x .500 Hex Washer Hd. Tap. Screw (2 Used on Ea. 800-362)				
121-430	Transistor — Pre-Amplifier (2 Req.)				
121-433	Transistor — Pre-Driver (2 Req.)	1.30			

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 29CT20 (Continued)					
22-6246	3.3 MF Electrolytic Capacitor - 15V.	1.05	63-1876	150K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
*22-6343	.33 MF Mylar Capacitor - 20% 50V. (2 Req.)	.05	63-1880	180K Ohm Resistor - 1/2W. 10% (2 Req.)	
22-6344	7 PF Ceramic Disc Capacitor - 5% 500V.		63-1883	220K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
*22-6347	2000 PF Capacitor - 5% 50V.		63-1898	470K Ohm Resistor - 1/2W. 20% (3 Req.)	.17
-OR-			63-1904	680K Ohm Resistor - 1/2W. 10%	.17
22-6136	2000 PF Capacitor - 5% 50V.		63-1918	1.5 Megohm Resistor - 1/2W. 10% (2 Used on Chassis, & P.C. Board - Audio Amp.)	
*33-374	Printed Circuit Board - Frame		63-4122	33 Ohm Resistor - 1/4W. 10% (1 Used on Ea. Chassis & S-89122)	
43-571	4 Contact Housing		63-4157	220 Ohm Resistor - 1/4W. 10%	.17
44-78	Earphone Jack	2.00	63-4185	1000 Ohm Resistor - 1/4W. 10%	.17
52-1149	3 Conductor Cable	.50	63-4196	1800 Ohm Resistor - 1/4W. 10%	.17
52-1391	2 Conductor Shielded Lead Cable (Used on 85-1210)	1.05	63-4231	12K Ohm Resistor - 1/4W. 10%	.17
52-1591	2 Conductor Shielded Lead	.70	63-4255	47K Ohm Resistor - 1/4W. 10%	.17
52-1988	2 Conductor Shielded Lead Cable		63-4269	100K Ohm Resistor - 1/4W. 10%	.17
52-1990	Shielded Lead Cable & Plug (Used on 85-1210)		63-4287	270K Ohm Resistor - 1/4W. 10%	.17
52-2019	2 Conductor Shield Lead Cable		*63-5085	680 Ohm Resistor - 1/4W. 10%	.45
52-2020	2 Conductor Shielded Lead Cable		63-5663	680 Ohm Resistor - 2W. 10%	.30
54-139	3/8-32 x 9/16 Palnut (5 Req.)	.03	63-6424	1 Ohm Resistor - 5W. 10% (2 Used on P.C. Board - Audio Amp.)	.75
54-474	3/8-32 x 1/2 x 3/32 Thk. Hex Nut	.05	63-6495	Mute Control - 100K Ohm	1.00
54-808	Tinnerman Speed Nut (4 Req.)	.03	*63-8708	Bias Control - 5K Ohm 30% 1/4W.	
54-828	1/2-20 Palnut		*63-8977	Dial Control - 1K Ohm 30% 1/4W. (2 Used on P.C. Board - Audio Amp.)	
54-851	Speed Nut (18 Used on Chassis, 7 Used on P.C. Board - Audio Amp.)		*63-8996	Balance Control - 250K Ohm	
58-338	Plug Shorting Bar		*63-8997	Dual Bass Control - 100K Ohm 30% 1W.	
*59-1101	Pointer (Down Blade With Carriage)		*63-8998	Dual Treble Control - 50K Ohm 30% 1/8W.	
63-1701	10 Ohm Resistor - 1/2W. 10% (2 Used on P.C. Board - Audio Amp.)	.17	*63-8999	Dual Loudness Control - 100K Ohm 30% 1/8W.	
63-1715	22 Ohm Resistor - 1/2W. 10% (2 Used on P.C. Board - Audio Amp.)		64-1033	Grip Eyelet (20 Used on P.C. Board)	.03
63-1736	68 Ohm Resistor - 1/2W. 10% (2 Used on P.C. Board - Audio Amp.)	.17	64-1046	Grip Eyelet (367 Used on P.C. Board)	.03
63-1761	270 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	*76-2033	Solid Tuning Shaft	
63-1764	330 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	78-2024	Lamp Socket (2 Req.)	.15
63-1771	470 Ohm Resistor - 1/2W. 10%	.17	80-2143	Cord Tension Spring	
63-1772	470 Ohm Resistor - 1/2W. 20% (5 Req.)	.17	82-195	Form Ground Strap	
63-1775	560 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	82-196	Form Ground Strip	
63-1777	680 Ohm Resistor - $\pm 5\%$ 1/2W. - Insulated (2 Used on P.C. Board - Audio Amp.)	.17	83-6173	Tie Strip	.03
63-1778	680 Ohm Resistor - 1/2W. 10% (6 Req.)	.17	83-7552	Transistor Insulating Strip (4 Used on P.C. Board - Audio Amp.)	
63-1781	820 Ohm Resistor - 1/2W. 5%	.34	*83-8122	Terminal Strip	
63-1782	820 Ohm Resistor - 1/2W. 10%	.17	*83-8148	Insulating Strip	
63-1785	1000 Ohm Resistor - 1/2W. 10% (2 Req.)		83-8151	Terminal Strip	
63-1794	1600 Ohm Resistor - 1/2W. 5% (2 Used on P.C. Board - Audio Amp.)	.10	*83-8155	Strain Relief Strip	
63-1796	1800 Ohm Resistor - 1/2W. 10%		83-8167	Insulating Strip	
63-1798	2200 Ohm Resistor - Insulated - 1/2W. 5%	.34	*83-8205	Insulating Strip	
63-1799	2200 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	85-1210	5 Position Bandswitch	
63-1803	2700 Ohm Resistor - 1/2W. 10%		*85-1211	AC On-Off Switch	
63-1805	3300 Ohm Resistor - $\pm 5\%$ 1/2W. (2 Used on P.C. Board - Audio Amp.)	.34	85-1212	Stereo - Mono Switch	
63-1806	3300 Ohm Resistor - 1/2W. 10%	.17	86-390	Connector Terminal (7 Used on 43-571)	.03
63-1810	3900 Ohm Resistor - 1/2W. 10% (1 Used on Chassis, 2 Used on P.C. Board - Audio Amp.)	.17	86-449	Connector Terminal (Used on S-82528)	.10
63-1813	4700 Ohm Resistor - 1/2W. 10% (3 Used on Chassis, 4 Used on P.C. Board - Audio Amp.)	.17	-OR-		
63-1817	5600 Ohm Resistor - 1/2W. 10% (3 Req.)	.17	86-357	Connector Terminal (Used on S-82528)	.03
63-1820	6800 Ohm Resistor - 1/2W. 10%	.17	86-490	Connector Terminal (Used on S-82528)	.10
63-1824	8200 Ohm Resistor - 1/2W. 10%	.17	-OR-		
63-1826	10K Ohm Resistor - 1/2W. 10% (2 Req.)		86-344	Connector Terminal (Used on S-82528)	.03
63-1827	10K Ohm Resistor - 1/2W. 10% (3 Used on Chassis, 2 Used on P.C. Board - Audio Amp.)		86-500	Connector Terminal (18 Used on P.C. Board)	.03
63-1831	12K Ohm Resistor - 1/2W. 10% (5 Used on Chassis, 2 Used on P.C. Board - Audio Amp.)	.17	86-542	Miniature Spring Terminal (4 Used on P.C. Board)	.03
63-1834	15K Ohm Resistor - 1/2W. 10% (2 Used on Chassis, & P.C. Board - Audio Amp.)	.17	86-543	Miniature Terminal (48 Used on P.C. Board)	.03
63-1835	15K Ohm Resistor - 1/2W. 20%		93-1906	No. 4 Flat Washer (4 Used on P.C. Board - Audio Amp.)	
63-1845	27K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	94-1384	Insulator Bushing (4 Req.)	
63-1848	33K Ohm Resistor - 1/2W. 10% (3 Req.)	.17	94-1532	Nylon Shaft Bushing	
63-1852	39K Ohm Resistor - 1/2W. 10% (2 Req.)		94-1586	Nylon Shoulder Bushing (Plant Loop) (4 Used on P.C. Board - Audio Amp.)	3.50
63-1855	47K Ohm Resistor - 1/2W. 10% (4 Req.)		95-2543	AM 3rd. I.F. AM 455KHz	1.95
63-1859	56K Ohm Resistor - 1/2W. 10%		95-2544	Oscillator Coil - AM	1.45
63-1862	68K Ohm Resistor - 1/2W. 10%		95-2750	B.C. RF Transformer	
63-1868	100K Ohm Resistor - 1/2W. 5% (2 Used on P.C. Board - Audio Amp.)	.34	95-2751	AM 1st I.F. AM 455KHz	
63-1873	120K Ohm Resistor - 1/2W. 10%	.17	95-2752	AM 2nd. I.F. AM 455 KHz	
			*95-2753	1st. I.F. Transformer 10.7 MHz	
			95-2754	2nd. I.F. Transformer 10.7 MHz (FM)	
			95-2755	FM 3rd. Transistor 10.7 MHz	
			95-2756	FM Ratio Detector 10.7 MHz	
			95-2856	Doubler Transformer 19KHz	1.30
			95-2857	Detector Transformer 38 KHz	1.30
			95-2858	Input Transformer 19KHz	1.50
			100-249	Pilot Light Bulb (2 Req.)	.18
			100-507	Stereo Indicator & Wire	1.50

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 29CT20 (Continued)					
103-23	Crystal Diode (6 Req.)	.75	*22-2592	3.4 MMF Ceramic Disc Capacitor - 25V.	.25
103-90	Diode - Matched Pair (2 Req.)	1.00	22-2729	.001 MF Ceramic Disc Capacitor - 25V. (5 Req.)	.25
103-96	Integnet (used on P.C. Board)		22-2884	5 MF Electrolytic Capacitor - 12V. (2 used on Chassis & P.C. Board - Audio Amp.)	1.50
103-189	Silicon Diode	3.75	22-3034	.05 MF Ceramic Disc Capacitor - 25V. (12 Req.)	.45
-OR-			22-3080	.005 MF Ceramic Disc Capacitor - 25V. (2 Req.)	.25
103-47	Silicon Diode	3.75	22-3177	390 PF Ceramic Disc Capacitor - 500V. (2 Req.)	.25
105-107	38KHz Filter (2 Req.)	1.00	22-3255	330 PF Ceramic Disc Capacitor - 500V. (2 Req.)	.25
114-77	6-20 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 used on Chassis, 2 Mts. 85-1211, & 85-1212, 1 Mts. Ea. 12-5710, 83-8132, & S-89117)	.03	22-3310	2.7 PF Disc Capacitor - 500V. (2 Req.)	.25
114-864	8-18 x 3/8 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (2 Req.)		22-3362	560 PF Disc Capacitor - 500V. (2 used on ea. Chassis & P.C. Board - Audio Amp.)	.25
114-1108	6-20 x 3/8 Hex Washer Hd. Self-Tap. Screw-Type 25 (2 joins S-88463 & 83-8148)		22-3381	39 PF Ceramic Disc Capacitor - 500V. (2 Req.)	.45
*114-1144	4-24 x 1/2 x 3/16 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze		22-3393	.01 MF Disc Capacitor - 25V. (5 Req.)	.25
121-430	Transistor (Phase & Verb Sound Amp.) (2 used on ea. Chassis & P.C. Board) (Out)		22-3415	.0068 MF Disc Capacitor - 25V. (3 Req.)	.25
121-546	Transistor (2 Req.)	.80	22-3541	3.3 PF Gimmick Capacitor (used on S-89122)	
121-613	Transistor (Auto Dyne Converter - FM)	.80	22-3652	.1 MF Ceramic Disc Capacitor - 10V. (2 Req.)	.30
121-614	Transistor - 1st. I.F.	.80	22-3675	10 PF Disc Capacitor - 500V. (2 Req.)	.25
121-639	Transistor (Amp.) (4 Req.)	.70	22-3687	1 MF Electrolytic Capacitor - 50V. (2 used on ea. Chassis & P.C. Board - Audio Amp.)	1.50
211-714	Transistor	.80	*22-3751	20 MMF Ceramic Disc Capacitor - 500V.	.30
121-737	Transistor (Stereo Indicator)	.95	22-3770	5.5 PF Disc Capacitor - 500V.	.30
121-767	Bias Transistor (2 used on P.C. Board)	.68	22-3896	5 MF Electrolytic Capacitor - 25V.	1.00
121-768	Pre-Driver Transistor (2 used on P.C. Board)	1.20	22-4573	1K MF Capacitor (used on P.C. Board-Audio Amp.)	2.10
121-773	Driver Transistor (2 used on P.C. Board)	.72	22-4819	2 PF Capacitor - 500V.	.50
121-774	Driver Transistor (2 used on P.C. Board)		22-4855	Trimmer Capacitor (1.7 to 10 PF Ceramic Trimmer)	.45
121-826	Transistor		22-5056	.02 MF Disc Capacitor - 25V.	.20
*121-850	Silicon Transistor		22-5316	500 MF Electrolytic Capacitor (2 used on P.C. Board - Audio Amp.)	2.55
*121-853	NPN Silicon Transistor (4 used on P.C. Board)		22-5482	680 PF Disc Capacitor - 500V. (5 used on ea. Chassis, 2 used on P.C. Board - Audio Amp.)	.25
121-858	Field Effect Transistor (N Channel)		22-5483	.0015 MF Disc Capacitor (2 Req.)	.95
*122-66	Tuning Meter		22-5486	10 MF Electrolytic Capacitor	.15
125-188	Rubber Grommet		22-5780	270 PF Polystyrene Capacitor - 500V.	.15
126-1336	Color Shield (Used on when S-79435 is used)	.20	22-5781	1000 PF Polystyrene Capacitor - 500V. (10 Req.)	.15
126-1521	Heat Sink Transistor (used on P.C. Board)		-OR-		
126-1545	Bug Shield		22-6136	1000 PF Polystyrene Capacitor - 500V. (10 Req.)	.15
*126-1548	Dial Scale Reflector		22-5782	2200 PF Polystyrene Capacitor - 500V.	.30
149-311	Iron Core (2 Req.)	.05	22-5814	.022 MF Mylar Capacitor - 15V. (4 Req.)	.30
159-199	Plug Button (Nylon)		22-5815	.056 MF Capacitor - 25V. (2 Req.)	.30
188-140	Retaining Ring		22-5866	.047 MF Capacitor - 100V. (4 used on P.C. Board-Audio Amp.)	.30
188-155	Clamping Ring (used on S-89195)		22-5884	.082 MF Mylar Capacitor - 100V. (4 Req.)	.25
*199-568	Shielded Lead Sleeve		22-5972	390 PF Polystyrene Capacitor - 125V.	.15
*S-82528	Antenna Cable & Terminal Assem.	.20	22-5986	50 MF Capacitor (2 used on P.C. Board-Audio Amp.)	1.10
S-83558	Speaker Jack & Record Assem.	.60	*22-6245	Variable Capacitor - 6 Sections FM Antenna Trimmer - FM Tuning - FM Detector Trimmer - FM Detector Tuning - FM Oscillator Tuning - AM Antenna Trimmer - AM Antenna Tuning - AM Detector Trimmer - AM Detector Tuning - AM Oscillator Trimmer - AM Oscillator Tuning	
S-88463	Antenna Wavemagnet Assem.		22-6246	3.3 MF Electrolytic Capacitor - 15V.	1.05
*S-88986	Dial Cord Assem. (Cord & Eyelet)		*22-6343	.33 MF Mylar Capacitor - 20% 50V. (2 Req.)	
*S-89117	Pulley & Bracket Assem.		*22-6344	7 PF Ceramic Disc Capacitor - 5% 500V.	
*S-89118	Pulley & Bracket Eyelet Assem. (Front)		*22-6347	2000 PF Polystyrene Capacitor - 5% 50V.	
*S-89122	FM Detector Coil Assem.		-OR-		
*S-89195	Pulley & Ring Assem.		22-6136	2000 PF Polystyrene Capacitor - $\pm 5\%$ 100V.	.85
*S-89928	Jack Assem. with Bracket		*33-374	Frame (P.C. Board)	
CHASSIS 29CT21			43-571	Male Contact Housing	.30
*12-5689	Dial Scale Metal Mtg. Bracket		44-78	Earphone Jack	2.00
*12-5690	Plastic Bracket & Pointer Carriage		*52-1149	3 Conductor Cable	
*12-5710	Escutcheon Mtg. Plate (Metal Stamping)		52-1391	2 Conductor Shielded Lead (used on 85-1210)	1.05
19-448	Ground Clip (used on 52-1988)		52-1591	2 Conductor Shielded Lead	.70
19-480	Wire Retaining Clip	.03	52-1988	2 Conductor Shielded Lead Cable	
19-485	Cable Retaining Clip (2 Req.)	.10	52-1990	Shielded Lead & Clabe (used on 85-1210)	
20-1256	Trap Coil - 10.7 MHz	.25	52-2019	2 Conductor Shielded Lead	
20-1649	FM Oscillator Coil	.50	52-2020	2 Conductor Shielded Lead (used on 63-8999)	
*20-3076	FM Antenna Coil		54-139	3/8-32 x 9/16 Palnut (5 Req.)	.03
*20-3080	67KHz Trap Coil	.50	54-474	3/8-32 x 1/2 x 3/32 Thk. Hex Nut	.05
-OR-			54-808	Tinnerman Speed Nut (4 Req.)	.03
S-79435	67KHz Trap Coil	1.10	54-828	1/2-20 Palnut	.03
22-13	.0033 MF Ceramic Disc Capacitor - $\pm 10\%$ 500V. (1 used on ea. 29CT21 & S-88463)	.25	54-851	Speed Nut Palnut (25 Req.)	.03
22-14	.0047 MF Ceramic Disc Capacitor - $\pm 10\%$ 500V. (3 Req.)	.25	58-338	Plug Shorting Bar (2 Req.)	
22-18	.0022 MF Ceramic Disc Capacitor - $\pm 10\%$ 500V. (3 Req.)	.25	*59-1098	Dial Pointer Blade	
22-2428	1.8 PF Gimmick Capacitor - 500V.	.25	63-1701	10 Ohm Resistor - 1/2W. 10% (3 Req.)	.17

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CHASSIS 29CT21 (Continued)					
63-1715	22 Ohm Resistor - 1/2W. 10% (2 used on P.C. Board - Audio Amp.)	.17	*63-8997	Dual Bass Control	
63-1736	68 Ohm Resistor - 1/2W. 10%	.17	*63-8998	Dual Treble Control - 50K Ohm 30% 1/8W.	
63-1757	220 Ohm Resistor - 1/2W. 10% (4 used on P.C. Board - Audio Amp.)	.17	*63-8999	Dual Volume Control - 100K Ohm 30% 1/8W.	
63-1761	270 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	64-1033	Grip Eyelet (4 used on P.C. Board)	.03
63-1764	330 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	64-1046	Grip Eyelet (310 used on P.C. Board)	.03
63-1771	470 Ohm Resistor - 1/2W. 10%		*76-2033	Solid Tuning Shaft	
63-1772	470 Ohm Resistor - 1/2W. 20% (5 Req.)	.17	*78-2024	Lamp Socket (Bayonet Fastener Mtg.) (2 Req.)	
63-1775	560 Ohm Resistor - 1/2W. 10% (3 Req.)	.17	80-2069	Tension Spring	
63-1777	680 Ohm Resistor - $\pm 5\%$ 1/2W. (2 used on P.C. Board - Audio Amp.)	.17	80-2143	Cord Tension Spring	
63-1778	680 Ohm Resistor - 1/2W. 10% (7 Req.)	.17	*82-195	Form Ground Strap	
63-1781	820 Ohm Resistor - 1/2W. 5%	.34	*82-196	Form Ground Strap	
63-1782	820 Ohm Resistor - 1/2W. 10%	.17	83-6173	Tie Strip (2 Req.)	
63-1785	1000 Ohm Resistor - 1/2W. 10% (2 Req.)		*83-8122	Terminal Strip (Solder & Contact Type)	
63-1794	1600 Ohm Resistor - 1/2W. 5% (2 used on P.C. Board - Audio Amp.)	.10	*83-8148	Insulating Strip (Flat Stop with Perforation)	
63-1796	1800 Ohm Resistor - 1/2W. 10%		*83-8167	Insulating Strip	
*63-1798	2200 Ohm Resistor - Insulated - 1/2W. 5%	.34	83-8205	Insulating Strip (Flat Stop with Perforation)	
63-1799	2200 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	*85-1210	5 Position Bandswitch	
63-1803	2700 Ohm Resistor - 1/2W. 10%		85-1211	A.C. On-Off Switch	
63-1805	3300 Ohm Resistor - 1/2W. $\pm 5\%$ (2 used on P.C. Board - Audio Amp.)	.34	*85-1212	Stereo - Mono Switch	
63-1806	3300 Ohm Resistor - 1/2W. 10%	.17	86-390	Connector Terminal (7 used on 43-571)	.03
63-1810	3900 Ohm Resistor - 1/2W. 10% (1 used on chassis, 2 used on P.C. Board - Audio Amp.)	.17	86-500	Connector Terminal (14 used on P.C. Board)	.03
63-1813	4700 Ohm Resistor - 1/2W. 10% (5 used on chassis, 4 used on P.C. Board - Audio Amp.)	.17	86-542	Miniature Spring Terminal (4 used on P.C. Board)	.03
63-1817	5600 Ohm Resistor - 1/2W. 10%	.17	86-543	Miniature Spring Terminal (16 used on P.C. Board)	.03
63-1820	6800 Ohm Resistor - 1/2W. 10% (5 Req.)	.17	*86-599	Female Terminal (2 used on 52-1988)	
63-1824	8200 Ohm Resistor - 1/2W. 10%	.17	93-1906	No. 4 Flat Washer (4 Req.)	
63-1826	10K Ohm Resistor - 1/2W. 5% (2 Req.)		94-1384	Insulator Bushing (4 Req.)	
63-1827	10K Ohm Resistor - 1/2W. 10% (3 used on chassis, 2 used on P.C. Board - Audio Amp.)		94-1532	Nylon Shaft Bushing	
63-1831	12K Ohm Resistor - 1/2W. 10% (1 used on chassis, 2 used on P.C. Board - Audio Amp.)		94-1586	Plain Shoulder Bushing (4 Req.)	
63-1834	15K Ohm Resistor - 1/2W. 10% (2 used on chassis, & P.C. Board - Audio Amp.)	.17	95-2543	Cadmium Transformer - 3rd. I.F. 455KHz	1.95
63-1835	15K Ohm Resistor - 1/2W. 20%		95-2544	AM Oscillator Transformer	1.45
63-1845	27K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2750	B.C. R.F. Transformer	
63-1848	33K Ohm Resistor - 1/2W. 10% (3 Req.)	.17	95-2751	AM Transformer - 1st I.F. 455KHz	
63-1852	39K Ohm Resistor - 1/2W. 10% (2 Req.)		95-2752	AM Transformer - 2nd I.F. 455KHz	
63-1855	47K Ohm Resistor - 1/2W. 10% (4 Req.)		*95-2753	FM Transformer - 1st I.F. 10.7MHz	
63-1859	56K Ohm Resistor - 1/2W. 10%		95-2754	FM Transformer - 2nd I.F. 10.7MHz	
63-1862	68K Ohm Resistor - 1/2W. 10%		95-2755	FM Transformer - 3rd I.F. 10.7MHz	
63-1868	100K Ohm Resistor - 1/2W. 5% (2 used on P.C. Board - Audio Amp.)	.34	95-2756	FM Ratio Detector - 10.7MHz	
63-1873	120K Ohm Resistor - 1/2W. 10%	.17	95-2856	Doubler Transformer - 19KHz	1.30
63-1876	150K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2857	Detector Transformer - 38KHz	1.30
63-1880	180K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2858	Input Transformer - 19KHz	1.30
63-1883	220K Ohm Resistor - 1/2W. 10% (2 Req.)		100-249	Pilot Light Bulb (2 Req.)	.18
63-1898	470K Ohm Resistor - 1/2W. 20% (3 Req.)	.17	100-507	Stereo Indicator Wire	1.50
63-1904	680K Ohm Resistor - 1/2W. 10%	.17	103-23	Crystal Diode (6 Req.)	
63-1918	1.5 Megohm Resistor - 1/2W. 10% (2 used on ea. Chassis & P.C. Board - Audio Amp.)		103-90	Matched Pair Diode (2 Req.)	1.00
63-4122	33 Ohm Resistor - 1/4W. 10% (1 used on ea. 29CT21 & S-89122)	.17	103-96	Integnet	1.90
63-4157	220 Ohm Resistor - 1/4W. 10%	.17	103-189	Silicon Diode	3.75
63-4185	1K Ohm Resistor - 1/4W. 10%	.17	-OR-		
63-4196	1800 Ohm Resistor - 1/4W. 10%	.17	103-47	Silicon Diode	3.75
63-4231	12K Ohm Resistor - 1/4W. 10%	.17	105-107	38 KHz Filter (2 Req.)	1.00
63-4255	47K Ohm Resistor - 1/4W. 10%	.17	114-77	6-20 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (14 Req.)	.03
63-4269	100k Ohm Resistor - 1/4W. 10%	.17	114-864	8-18 x 3/8 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (2 Req.)	.03
63-4287	270K Ohm Resistor - 1/4W. 10%	.17	114-1108	6-20 x 3/8 Hex Washer Hd. Screw Self-Tap. (2 joins S-88463 & 83-8148)	.03
*63-5085	680 Ohm Resistor - 3W. 20% (used on P.C. Board - Audio Amp.)	.45	114-1144	4-24 x 1/2 x 3/16 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 Req.)	
63-5663	680 Ohm Resistor - 2W. 10%	.30	121-430	Phase Inverter Sound Amp. Transistor (2 used on ea. chassis & P.C. Board - Audio Amp.)	.80
63-6424	1 Ohm Resistor - 5W. 10% (2 used on P.C. Board - Audio Amp.)	.75	121-546	Transistor (2 Req.)	
63-6495	Mute Control - 100K Ohm	1.00	121-613	Auto Dyne Converter FM Transistor	
*63-8708	Bias Control - 5K Ohm 30% 1/4W.		121-614	I.F. 1st. Transistor	.80
63-8977	Bias Control - 1K Ohm 30% 1/4W. (2 used on P.C. Board - Audio Amp.)		121-639	Amp. Transistor (4 Req.)	.70
63-8996	Balance Control - 250K Ohm		121-714	Transistor	.80
			121-737	Stereo Indicator Transistor	.95
			121-767	Bias Transistor (2 used on P.C. Board - Audio Amp.)	.68
			121-768	Pre-Driven Transistor (2 used on P.C. Board)	
			121-773	Driver Transistor (2 used on P.C. Board - Audio Amp.)	.72
			121-774	Driver Transistor (2 used on P.C. Board)	
			121-826	Transistor	
			*121-850	Transistor - NPN, Silicon	
			121-853	NPN Silicon Transistor (4 used on P.C. Board - Audio Amp.)	
			*121-858	Field Effect Transistor (N Channel)	
			122-66	Tuning Meter	
			*126-1521	Heat Sink	

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 29CT21 (Continued)					
149-311	Iron Core	.05			
188-140	Retaining Ring				
188-155	Clamping Ring (Used on S-89195)	.05			
19-246	Insulating Sleeve (2 Used on 52-1988)	.05			
*199-568	Shielded Sleeve				
S-82528	Antenna Cable & Terminal Assem.	.20			
S-83558	Speaker Jack & Bracket Assem.	.60			
*S-88463	Antenna Assem. (Wavemagnet)				
S-88986	Dial Cord Assem.				
S-89117	Pulley & Bracket Assem.				
S-89118	Pulley & Bracket Assem. (Front)				
S-89122	FM Detector Coil Assem.				
S-89195	Pulley Assem. with Ring				
S-89201	Dial Light Shield, Terminal Strip & Insulator Strip Assem.				
S-89928	Jack & Bracket Assem.				
CHASSIS 29CT21Z1					
12-5425	Pulley Mtg. Bracket (Part of S-85563)	.03			
*12-5689	Dial Scale Mtg. Bracket				
*12-5710	Escutcheon Mtg. Plate				
19-480	Wire Retaining Clip	.03			
19-485	Cable Retaining Clip	.10			
*20-1256	Trap Coil (10.7 MHz)	.50			
*20-1649	FM Oscillator Coil	.50			
*20-3076	FM Antenna Coil (Part of S-89134)	.15			
*20-3077	FM Detector Coil (Part of S-89122)	.15			
20-3080	Trap Coil - 67 KHz	.50			
22-13	.0033 MF Disc Capacitor - +10 -10% 500V. (2 Req.) (1 Used on S-88463)	.25			
22-14	.0047 MF Disc Capacitor - 500V. (3 Req.)	.25			
22-2428	1.8 PF Gimmick Capacitor - 500V.	.25			
22-2592	3.4 MF Ceramic Disc Capacitor - 500V.	.25			
22-2729	.001 MF Disc Capacitor - 25V. (6 Req.)	.25			
22-2884	5 MF Electrolytic Capacitor - 12V. (4 Req.)	1.50			
22-3034	.05 MF Disc Capacitor - 25V. (10 Req.)	.45			
22-3080	.005 MF Disc Capacitor - 25V. (2 Req.)	.25			
22-3177	390 PF Disc Capacitor - 500V. (2 Req.)	.25			
22-3255	330 PF Disc Capacitor - 500V. (2 Req.)	.25			
22-3310	2.7 PF Gimmick Capacitor - 500V. (2 Req.)	.25			
22-3381	39 PF Ceramic Disc Capacitor - ±5% 500V. (2 Req.)	.45			
22-3393	.01 MF Disc Capacitor - 25V. (5 Req.)	.25			
22-3415	.0068 MF Disc Capacitor - 25V. (3 Req.)	.25			
22-3541	3.3 PF Gimmick Capacitor - 500V. (Part of S-89122)	.25			
22-3652	.1 MF Disc Capacitor - 10V. (2 Req.)	.30			
22-3675	10 PF Disc Capacitor - 500V. (2 Req.)	.25			
22-3687	1 MF Electrolytic Capacitor - 50V. (4 Req.)	1.50			
22-3751	20 PF Capacitor - ±5% 500V.	.30			
*22-3770	5.5 PF Disc Capacitor - 500V.	.30			
22-3896	5 MF Electrolytic Capacitor - 25V.	1.00			
22-4573	1000 MF Electrolytic Capacitor - 15V.	2.10			
22-4819	2 PF Capacitor - ±.25% 500V.	.50			
22-4855	Trimmer Capacitor - 1.7 to 10 PF Ceramic	.45			
22-5056	.02 MF Disc Capacitor - 25V.	.20			
22-5316	500 MF Electrolytic Capacitor - 50V. (2 Req.)	2.55			
22-5481	560 PF Disc Capacitor - 500V. (2 Req.)	.25			
22-5482	680 PF Disc Capacitor - 500V. (5 Req.)	.25			
22-5483	.0015 MF Disc Capacitor - 500V. (2 Req.)	.25			
22-5486	10 MF Electrolytic Capacitor - 6V.	.95			
*22-5780	270 PF Polystyrene Capacitor - 500V.	.15			
*22-5781	1000 PF Polystyrene Capacitor - 500V. (2 Req.)	.15			
-OR-					
22-3613	1000 PF Mica Capacitor (2 Req.)	.50			
22-5782	2200 PF Capacitor - ±5% 500V.	.15			
22-5814	.022 MF Mylar Capacitor - 50V. 20% (4 Req.)	.30			
22-5866	.047 MF Mylar Capacitor - 100V. (4 Req.)	.30			
22-5884	.082 MF Mylar Capacitor - 100V. (6 Req.)	.35			
*22-5972	390 PF Polystyrene Capacitor - 125 V.	.15			
22-5986	50 MF Electrolytic Capacitor - 25 V. (2 Req.)	1.10			
			*22-6245	Gang Capacitor, Six Section (FM Antenna Trimmer, FM Antenna Tuning, FM Detector Trimmer, FM Detector Tuning, FM Oscillator Tuning, AM Antenna Trimmer, AM Antenna Tuning, AM Detector Trimmer, AM Detector Tuning, AM Oscillator Trimmer, AM Oscillator Tuning)	6.80
			*22-6246	3.3 MF Electrolytic Capacitor - 15V.	1.05
			22-6343	.33 MF Mylar Capacitor - 50V. 20% (2 Req.)	.70
			22-6344	7 PF Ceramic Disc Capacitor - ±.5 PF 500V.	.10
			22-6347	2000 PF Capacitor - ±5% 50V.	.35
			-OR-		
			22-6136	2000 PF Capacitor - ±5% 100V.	.85
			*33-374	P.C. Bd. Frame	
			*33-377	P.C. Bd. Frame - Power Amp.	
			43-571	9 Contact Housing (Used on 86-390)	.30
			44-48	Connector Jack (4 Part of S-89928 & 2 Part of S-83558)	.20
			44-78	Earphone Jack	2.00
			52-1062	2 Conductor Cable (Used on 86-344 & 86-357)	.10
			52-1149	Three Conductor Cable (Used on 44-78)	.50
			52-1391	Two Conductor Shielded Lead (Used on 85-1210)	1.05
			52-1591	Two Conductor Shielded Lead	.70
			*52-1988	Two Conductor Shielded Lead	1.10
			*52-1990	Shielded Lead & Plug (Used on 85-1210)	
			*52-2019	Two Conductor Shielded Lead	1.00
			52-2020	Two Conductor Shielded Lead	1.10
			54-139	3/8-32 x 9/16 Palnut (5 Req.)	.03
			54-474	3/8-32 x 1/2 x 3/32 Thk. Hex Nut (Used on 44-78)	.05
			54-808	Tinnerman Speed Nut (4 Req.)	.03
			54-828	1/2-20 Palnut	.03
			*54-851	Speed Nut - Palnut (25 Used on P.C. Board)	.03
			58-338	Plug (2 Req.)	.20
			61-222	Idle Pulley (Part of S-85563 & 3 Part of S-89118)	.20
			61-324	Pulley, Flanged (Part of S-89195)	
			63-1701	10 Ohm Resistor - 1/2W. 10% (3 Req.)	.17
			63-1715	22 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
			63-1736	68 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
			63-1757	220 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
			63-1761	270 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
			63-1764	330 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
			63-1771	470 Ohm Resistor - 1/2W. 10%	.17
			63-1772	470 Ohm Resistor - 1/2W. 20% (5 Req.)	.17
			63-1775	560 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
			63-1777	680 Ohm Resistor - 1/2W. 5% (2 Req.)	
			63-1778	680 Ohm Resistor - 1/2W. 10% (5 Req.)	.17
			63-1781	820 Ohm Resistor - 1/2W. 5%	.34
			63-1782	820 Ohm Resistor - 1/2W. 10%	.17
			63-1785	1000 Ohm Resistor - 1/2W. 10% (2 Req.)	
			63-1794	1600 Ohm Resistor - 1/2W. 5% (2 Req.)	.10
			63-1796	1800 Ohm Resistor - 1/2W. 10%	
			63-1798	2200 Ohm Resistor - 1/2W. 5%	.34
			63-1799	2200 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
			63-1803	2700 Ohm Resistor - 1/2W. 10%	.17
			63-1805	3300 Ohm Resistor - 1/2W. 5% (2 Req.)	.34
			63-1806	3300 Ohm Resistor - 1/2W. 10%	.17
			63-1810	3900 Ohm Resistor - 1/2W. 10% (3 Req.)	.17
			63-1813	4700 Ohm Resistor - 1/2W. 10% (9 Req.)	.17
			63-1817	5600 Ohm Resistor - 1/2W. 10%	.17
			63-1820	6800 Ohm Resistor - 1/2W. 10% (3 Req.)	.17
			63-1824	8200 Ohm Resistor - 1/2W. 10%	.17
			63-1826	10K Ohm Resistor - 1/2W. 5% (2 Req.)	
			63-1827	10K Ohm Resistor - 1/2W. 10% (5 Req.)	
			63-1831	12K Ohm Resistor - 1/2W. 10% (4 Req.)	
			63-1834	15K Ohm Resistor - 1/2W. 10% (5 Req.)	.17
			63-1848	33K Ohm Resistor - 1/2W. 10% (3 Req.)	.17
			63-1852	39K Ohm Resistor - 1/2W. 10% (2 Req.)	
			63-1855	47K Ohm Resistor - 1/2W. 10% (4 Req.)	
			63-1859	56K Ohm Resistor - 1/2W. 10%	
			63-1862	68000 Ohm Resistor - 1/2W. 10%	.17
			63-1868	100K Ohm Resistor - 1/2W. 5% (2 Req.)	.34
			63-1873	120K Ohm Resistor - 1/2W. 10%	.17
			63-1898	470K Ohm Resistor - 1/2W. 20% (3 Req.)	.17
			63-1904	680K Ohm Resistor - 1/2W. 10%	.17
			63-1918	1.5 Megohm Resistor - 1/2W. 10% (4 Req.)	

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 29CT21Z1 (Continued)			103-90	Germanium Diode -- Matched Pair	2.00
63-4122	33 Ohm Resistor -- 1/4W. 10%	.17	103-96	Diode, Zener	1.90
63-4129	47 Ohm Resistor -- 1/4W. 10% (Part of S-89122)	.17	103-189	AFC Diode	3.75
63-4157	220 Ohm Resistor -- 1/4W. 10%	.17	-OR-		
63-4185	1000 Ohm resistor -- 1/4W. 10%	.17	103-47	AFC Diode	3.75
63-4196	1800 Ohm resistor -- 1/4W. 10%	.17	*105-107	Integnet -- 38 KHz Filter (2 Req.)	1.00
63-4231	12K Ohm Resistor -- 1/4W. 10%	.17	114-77	6-20 x 5/16" Lg. x 1/4" Hex Hd. Self-Tap. Screw-Stat. Bronze (14 Req.)	.03
63-4255	47K Ohm Resistor -- 1/4W. 10%	.17	114-864	8-18 x 3/8 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (4 Req.)	.03
63-4269	100K Ohm Resistor -- 1/4W. 10%	.17	114-1108	6-20 x 3/8 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (2 Req.)	.03
63-4287	270K Ohm Resistor -- 1/4W. 10%	.17	114-1144	4-24 x 0.500 x 0.187 Hex Washer Hd. Screw-Stat. Bronze (2 Used on Ea. 121-853X) (4 Req.)	.03
63-5085	680 Ohm Resistor -- 3W. 10%	.45	121-430	Transistor -- Audio -- Amp. (2 Req.)	1.10
63-5663	680 Ohm Resistor -- 2W. 10%	.30	121-546	Transistor -- AM-FM 2nd. I.F., FM 3rd. I.F. (2 Req.)	.80
63-6424	1 Ohm Resistor -- 5W. 10% (2 Req.)	.75	121-613	Transistor -- Autodyne Converter -- FM	.80
63-6495	Mute Control -- 100K	1.00	121-614	Transistor -- AM-FM 1st. I.F.	.80
*63-8708	Rotary Control, Single -- 5K Ohm 30% 1/4W. Bias Adjust	.80	121-639	Transistor -- Comp. Amp., 19 KHz Amp. & 38 KHz Amp., Tuning Meter Control (4 Req.)	.70
*63-8977	Rotary Control, Single 1000 Ohm 30% 1/4W. Bias Adjust. (2 Req.)	.75	121-714	Transistor -- AM Converter	.80
63-8996	250K Ohm Single Rotary Control -- 1/8W. 30% (Balance Control)	1.40	*121-737	Transistor -- Stereo Indicator Switch	.95
63-8997	100K Ohm Dual Rotary Control -- 1/8W. 30% (Bass Control)	2.50	*121-767	Transistor -- Bias Control (2 Req.)	.68
63-8998	50K Ohm Dual Rotary Control -- 1/8W. 30% (Treble Control)	2.60	*121-768	Transistor -- Pre-Driver (2 Req.)	1.20
63-8999	100K Ohm Dual Rotary Control -- 1/8W. 30% (Loudness Control)	4.40	*121-773	Transistor -- Driver (2 Req.)	.72
64-6	1/8" Dia. x 3/16" Lg. Tubular Rivet (2 Part of S-89928)	.03	*121-774	Transistor -- Driver (2 Req.)	1.76
64-288	Shoulder Rivet (Part of S-85563)	.03	121-826	Transistor, FM RF	1.70
64-303	Shoulder Rivet (Part of S-89118)	.04	121-850	Transistor, NPN Silicon	.60
64-1098	Shoulder Rivet -- Flat Hd. (2 Part of S-89118)	.10	*121-853X	Transistor -- Output -- Matched Pair (2 Req.)	1.90
*76-2033	Tuning Shaft	.55	*121-858	Transistor -- Biphase Detector	.75
78-2024	Lamp Socket (2 Req.)	.60	*122-66	Tuning Meter	8.15
79-174-12	No. 18 Sleeve -- Yellow -- 1-1/2" (2 Req.)	.03	126-1521	Heat Sink	3.00
80-2143	Cord Tension Spring	.35	*126-1533	Dial Scale Reflector (Part of S-89201)	
*82-195	Ground Strap	.55	149-311	Ferrite Core (Sleeve) (2 Req.)	.05
82-196	Ground Strap		*149-426	Ferrite Core, Antenna Rod (Part of S-88463)	
83-1961	Antenna Terminal Strip (Part of S-89928)	.35	188-140	Retaining Ring	.03
83-5791	Rubber Strip (Chassis)	.10	188-155	Clamping Ring (Part of S-89195)	.05
83-6173	Tie Strip	.03	*199-567	Sleeving (Part of S-88463)	
*83-7552	Transistor Insulating Washer (2 Part of Ea. 121-853X)	.03	*199-568	Shielded Sleeve	.10
83-7803	Terminal Strip	.10	205-51	Dow Corning Heat Conductive Grease (Part of 121-853X)	.16
83-8148	Insulating Strip W/Perforation	.15	S-82528	Antenna Cable & Terminal Assem.	.20
83-8151	Terminal Strip (Part of S-89201)	.20	S-83558	Speaker Jack & Bracket Assem.	.60
83-8155	Strain Relief Strip (Part of S-89201)		S-85563	Pulley Mtg. Bracket Assem.	.05
83-8163	Antenna Mtg. Terminal Strip (2 Part of S-88463)	.20	*S-88463	Wavemagnet Antenna Assem.	
83-8167	Insulating Strip W/Perforation	.45	S-88986	Dial Cord & Eyelet Assem.	.40
83-8205	Insulating Strip W/Perforation	.05	S-89051	Pointer & Carriage Assem.	
*85-1210	5 Position Bandswitch	5.10	S-89117	Pulley & Bracket Assem.	.35
*85-1212	Rocker Switch (Stereo -- Mono)	1.90	S-89118	Pulley & Bracket Assem. (Chassis Front)	
*85-1338	Rocker Switch (A.C. On-Off Switch)		S-89122	FM Detector Coil Coil Assem.	.65
86-344	Terminal, Connector (Used on 52-1062)	.03	S-89134	FM Antenna Coil Assem.	.35
86-390	Connector Terminal, Male (8 Used on 43-571)	.03	S-89195	Pulley & Ring Assem.	.45
86-357	Connector Terminal (Used on 52-1062)	.03	*S-89197	Cable & Housing Assem.	
86-500	Terminal (19 Req.)	.03	*S-89201	Dial Light Shield, Terminal Strip & Insulator Strip Assem.	
86-543	Miniature Spring Terminal (80 Req.)	.03	*S-89928	Phono Jack & Bracket Assem.	
93-1906	No. 4 Flat Washer (1 Used on Ea. 114-1144) (4 Req.)	.05	CHASSIS 29CT30		
94-1384	Insulated Bushing (4 Req.)	.10	12-5425	Pulley Mtg. Bracket (Part of S-85563)	.03
94-1532	Nylon Shaft Bushing	.20	*12-5508	Heat Sink Bracket	
94-1586	Shoulder Bushing (4 Req.)	.03	12-5765	Bracket	
95-2543	Transformer -- 3rd. I.F. AM 455 KHz	1.95	17-143	Nylon Clamp (2 Req.)	.20
95-2544	Transformer -- AM -- Oscillator	1.45	19-480	Wire Retaining Clip	.03
*95-2750	Transformer -- B.C. R.F.	3.40	19-485	Cable Retaining Clip (1 Used on Ea. 52-1588 & 52-1589)	.10
*95-2751	Transistor -- AM 1st. I.F. AM 455 KHz	1.45	*20-1256	Trap Coil (10.7 MHz)	.50
*95-2752	Transformer -- AM 2nd. I.F. AM 455 KHz	1.45	*20-1649	FM Oscillator Coil	.50
*95-2753	Transformer -- FM 1st. I.F. 10.7 MHz	1.45	*20-3076	FM Antenna Coil	
*95-2754	Transformer -- FM 2nd. I.F. 10.7 MHz	1.45	*20-3077	FM Detector Coil	
*95-2755	Transformer -- FM 3rd. I.F. 10.7 MHz	1.55	20-3080	Trap Coil -- 67 KHz	.50
*95-2756	Transformer -- FM Ratio Detector 10.7 MHz	1.90	22-13	.0033 MF Disc Capacitor -- +10 --10 500V. (2 Req.)	.25
*95-2856	Multiplex Doubler -- 19 KHz Transformer	1.30	22-14	.0047 MF Disc Capacitor -- 500V. (3 Req.)	.25
*95-2857	Multiplex Detector -- 38 KHz Transformer	1.30	22-2428	1.8 PF Gimmick Capacitor -- 500V.	.25
*95-2858	Multiplex Input -- 19 KHz Transformer	1.30			.25
100-249	Indicator Lamp, Pilot Light Bult (3 Req.)	.18			
103-23	Germanium Diode (6 Req.)	.75			

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 29CT30 (Continued)					
22-2592	3.4 MF Ceramic Disc Capacitor - 500V.	.25	61-324	Pulley, Flanged (Part of S-89195)	
22-2703	220 PF Disc Capacitor - 500V. (2 Req.)	.25	61-325	Pulley, Flanged	
22-2729	.001 MF Disc Capacitor - 24V. (5 Req.)	.25	63-1701	10 Ohm Resistor - 1/2W. 10% (3 Req.)	.17
22-2884	5 MF Electrolytic Capacitor - 12V. (4 Req.)	1.50	63-1715	22 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
22-3034	.05 MF Disc Capacitor - 25V. (14 Req.)	.45	63-1736	68 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
22-3080	.005 MF Disc Capacitor - 25V. (2 Req.)	.25	63-1757	220 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
22-3177	390 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1761	270 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
22-3255	330 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1764	330 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
22-3310	2.7 PF Gimmick Capacitor - 500V. (2 Req.)	.25	63-1771	470 Ohm Resistor - 1/2W. 10%	.17
22-3362	560 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1772	470 Ohm Resistor - 1/2W. 20% (5 Req.)	.17
22-3381	39 PF Ceramic Disc Capacitor - $\pm 5\%$ 500V. (2 Req.)	.45	63-1775	560 Ohm Resistor - 1/2W. 10% (3 Req.)	.17
22-3393	.01 MF Disc Capacitor - 25V. (6 Req.)	.25	63-1777	680 Ohm Resistor - 1/2W. 5% (2 Req.)	.17
22-3415	.0068 MF Disc Capacitor - 25V.	.25	63-1778	680 Ohm Resistor - 1/2W. 10% (5 Req.)	.17
22-3541	3.3 PF Gimmick Capacitor - 500V.	.25	63-1781	820 Ohm Resistor - 1/2W. 5%	.34
22-3652	.1 MF Disc Capacitor - 10V. (2 Req.)	.30	63-1782	820 Ohm Resistor - 1/2W. 10%	.17
22-3675	10 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1785	1000 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
22-3687	1 MF Electrolytic Capacitor - 50V. (4 Req.)	1.50	63-1794	1600 Ohm Resistor - 1/2W. 5% (2 Req.)	.10
22-3751	20 PF Capacitor - $\pm 5\%$ 500V.	.30	63-1796	1800 Ohm Resistor - 1/2W. 10%	
*22-3770	5.5 PF Disc Capacitor - 500V.	.30	63-1798	2200 Ohm Resistor - 1/2W. 5%	.34
22-3896	5 MF Electrolytic Capacitor - 25V.	1.00	63-1799	2200 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
22-4573	1000 MF Electrolytic Capacitor - 15V.	2.10	63-1805	3300 Ohm Resistor - 1/2W. 5% (2 Req.)	.34
22-4819	2 PF Capacitor - $\pm .25\%$ 500V.	.50	63-1806	3300 Ohm Resistor - 1/2W. 10% (3 Req.)	.17
22-4855	Trimmer Capacitor - 1.7 to 10 PF Ceramic	.45	63-1810	3900 Ohm Resistor - 1/2W. 10% (5 Req.)	.17
22-5233	.015 MF Mylar Capacitor - $\pm 20\%$ 50V. (2 Req.)	.45	63-1813	4700 Ohm Resistor - 1/2W. 10% (6 Req.)	.17
22-5316	500 MF Electrolytic Capacitor - 50V. (2 Req.)	2.55	63-1817	5600 Ohm Resistor - 1/2W. 10%	.17
22-5481	560 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1820	6800 Ohm Resistor - 1/2W. 10% (3 Req.)	.17
22-5482	680 PF Disc Capacitor - 500V. (7 Req.)	.25	63-1824	8200 Ohm Resistor - 1/2W. 10%	.17
22-5486	10 MF Electrolytic Capacitor - 6V.	.95	63-1826	10K Ohm Resistor - 1/2W. 5% (2 Req.)	
22-5487	47 MF Disc Capacitor - 3V. (2 Req.)	.45	63-1827	10K Ohm Resistor - 1/2W. 10%	
*22-5780	270 PF Polystyrene Capacitor - 500V.	.15	63-1831	12K Ohm Resistor - 1/2W. 10% (4 Req.)	
*22-5781	1000 PF Polystyrene Capacitor - 500V. (2 Req.)	.15	63-1834	15K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
-OR-			63-1841	22K Ohm Resistor - 1/2W. 10%	
22-3613	1000 PF Mica Capacitor (2 Req.)	.50	63-1842	22K Ohm Resistor - 1/2W. 20%	.17
22-5782	2200 PF Capacitor - $\pm 5\%$ 500V.	.15	63-1845	27K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
22-5862	.1 MF Mylar Capacitor - 100V. (2 Req.)	.35	63-1848	33K Ohm Resistor - 1/2W. 10% (5 Req.)	.17
22-5866	.047 MF Mylar Capacitor - 100V. (6 Req.)	.30	63-1852	39K Ohm Resistor - 1/2W. 10% (2 Req.)	
22-5883	.033 MF Mylar Capacitor - 100V. (2 Req.)	.35	63-1855	47K Ohm Resistor - 1/2W. 10% (4 Req.)	
22-5971	.0033 MF Mylar Capacitor (2 Req.)	.30	63-1859	56K Ohm Resistor - 1/2W. 10%	
*22-5972	390 PF Polystyrene Capacitor - 125V.	.15	63-1868	100K Ohm Resistor - 1/2W. 5% (2 Req.)	.34
*22-5986	50 MF Electrolytic Capacitor - 25V. (2 Req.)	1.10	63-1869	100K Ohm Resistor - 1/2W. 10%	.17
*22-6111	.001 MF Mylar Capacitor - 50V. (2 Req.)	.40	63-1873	120K Ohm Resistor - 1/2W. 10%	.17
*22-6245	Gang Capacitor, Six Section (FM Antenna Trimmer, FM Antenna Tuning, FM Detector Trimmer, FM Detector Tuning, FM Oscillator Tuning, AM Antenna Trimmer, AM Antenna Tuning, AM Detector Trimmer, AM Detector Tuning, AM Oscillator Trimmer, AM Oscillator Tuning)		63-1883	220K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
			63-1887	270K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
			63-1890	330K Ohm Resistor - 1/2W. 10% (2 Req.)	
			63-1898	470K Ohm Resistor - 1/2W. 20% (3 Req.)	.17
			63-1904	680K Ohm Resistor - 1/2W. 10%	.17
			63-1918	1.5 Megohm Resistor - 1/2W. 10% (2 Req.)	
			63-1933	3.3 Megohm Resistor - 1/2W. 20%	
			63-4122	33 Ohm Resistor - 1/4W. 10% (2 Req.)	.17
*22-6246	3.3 MF Electrolytic Capacitor - 15V.	1.05	63-4157	220 Ohm Resistor - 1/4W. 10%	.17
22-6344	7 PF Ceramic Disc Capacitor - $\pm .5$ PF 500V.		63-4185	1000 Ohm Resistor - 1/4W. 10%	.17
22-6347	2000 PF Capacitor - $\pm 5\%$ 50V.		63-4196	1800 Ohm Resistor - 1/4W. 10%	.17
-OR-			63-4231	12K Ohm Resistor - 1/4W. 10%	.17
22-6136	2000 PF Capacitor - $\pm 5\%$ 100V.	.85	63-4255	47K Ohm Resistor - 1/4W. 10%	.17
*33-375	P.C. Bd. Frame		63-4269	100K Ohm Resistor - 1/4W. 10%	.17
43-571	9 Contact Housing (Used on 86-390)	.30	63-4287	270K Ohm Resistor - 1/4W. 10%	.17
44-48	Connector Jack (4 Part of S-79667)	.20	63-5663	680 Ohm Resistor - 2W. 10%	.30
52-1062	2 Conductor Cable (Used on 86-449 or 86-357 & 86-450 or 86-344)	.10	63-6424	1 Ohm Resistor - 5W. 10% (2 Req.)	.75
52-1425	2 Conductor Shielded Lead (Used on 58-214)	1.15	63-6495	Mute Control - 100K	1.00
52-1501	3 Conductor Cable - Approx. 20" (Used on 86-344)	.60	*63-8708	Rotary Control, Single - 5K Ohm 30% 1/4W. Bias Adjust.	
*52-1588	2 Conductor Shielded Lead (Used on 86-388)	1.00	*63-8964	Rotary Control, Dual Treble - 250K Ohm 30% 1/8W	
*52-1589	2 Conductor Shielded Lead (Used on 86-388)	.85	*63-8965	Rotary Control, Dual Bass - 250K Ohm 30% 1/8W	
*52-1590	2 Conductor Shielded Lead (Used on 85-1207)	.70	*63-8966	Rotary Control, Single Balance W/Switch 500K Ohm	
*52-2022	2 Conductor Shielded Cable (Used on 58-338)		*63-8967	Rotary Control, Dual Loudness - 100K Ohm	
22-2023	2 Conductor Shielded Cable (Used on 58-338)		*63-8977	Rotary Control, Single 1000 Ohm 30% 1/4W. Bias Adjust. (2 Req.)	
54-139	3/8-32 x 9/16 Palnut (5 Required)	.03	64-6	1/8" Dia. x 3/16" Lg. Tubular Rivet (2 Part of S-79667)	
54-808	Tinnerman Speed Nut (1 Used on ea. 114-1129)	.03	64-288	Shoulder Rivet (1 Part of ea. S-85563, S-85564, 2 Part of S-89890) (4 Req.)	.03
54-828	1/2-20 Palnut	.03			
58-214	Single Prong Plug (2 Used on 52-1425)	.10			
58-338	Plug (2 Req.)	.20			
*59-1099	Dial Pointer, Blade W/Carriage		*76-2032	Tuning Shaft	
61-222	Idler Pulley (Part of S-77501, S-85563, S-75501, S-85564 & 2 Part of S-89890)	.20	80-1963	Idler Pulley Spring (Part of S-77501)	.15
			80-2143	Cord Tension Spring	
			*82-195	Ground Strap	

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 29CT30 (Continued)			188-155	Clamping Ring (Part of S-89195)	.05
83-1961	Antenna Terminal Strip (Part of S-79667)	.35	199-319	Insulating Sleeve (Used on 52-1501) (2 Req.)	
83-3561	Cable Retaining Strip	.05	*199-567	Sleeving (Part of S-88463)	
83-6173	Tie Strip	.03	205-51	Dow Corning Heat Conductive Grease (Part of 12-853X)	.16
*83-7417	Antenna Protective Strip	.20	S-77501	Pulley & Spring Assem.	.30
*83-7552	Transistor Insulating Washer (2 Part of ea. 121-853X)		S-79667	Antenna & Tape Input Bracket Assem.	
*83-8122	Terminal Strip		S-82528	Antenna Cable & Terminal Assem.	.20
83-8163	Antenna Mtg. Terminal Strip (2 Part of S-88463)		S-85563	Pulley Mtg. Bracket Assem.	
			S-85564	Pulley Mtg. Bracket Assem.	
			S-85569	Drive Pulley Assem.	.50
*85-1207	Rotary Switch		S-86608	Socket & Terminal Assem.	
86-344	Terminal, Connector (Used on 52-1062 & 52-1501) (6 Req.)	.03	S-87113	Speaker Cable, Terminal & Sleeve Assem.	
86-390	Connector Terminal (9 Used on 43-571)	.03	*S-88463	Wavemagnet Antenna Assem.	
86-449	Connector Terminal (Used on 52-1062)	.10	S-88984	Dial Cord & Eyelet Assem.	
-OR-			S-88985	Dial Cord & Eyelet Assem.	
86-357	Connector Terminal (Used on 52-1062)	.03	S-89195	Pulley & Ring Assem.	
86-450	Connector Terminal (Used on 52-1062)	.10	*S-89890	Pulley & Bracket Pointer Guide Assem.	
-OR-					
86-344	Connector Terminal (Used on 52-1062)	.03	MODEL B545W		
86-500	Terminal (23 Req.)	.03	CHASSIS COMPONENTS		
86-543	Miniature Spring Terminal (88 Req.)	.03	63-1771	470 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
86-617	Terminal Ring		63-1883	220K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
93-1906	No. 4 Flat Washer (1 Used on ea. 114-1129)		63-1897	470K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
94-1532	Nylon Shaft Bushing	.20	63-3992	68K Ohm Resistor - 1/2W. 10% (3 Req.)	.17
94-1586	Shoulder Bushing (4 Req.)		880-294	Output Transistor - Assem. - Matched Pair - PNP - NPN (2 Req.)	2.45
95-2543	Transformer - 3rd. I.F. AM 455 KHz	1.95	*964-8976	1 Megohm Resistor - 1/2W. 10% (2 Req.)	
95-2544	Transformer - AM - Oscillator	1.45	964-18014	4.7 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
*95-2750	Transformer - B.C. R.F.		964-19610	200 MF Electrolytic Capacitor - 15V. (2 Req.)	1.10
*95-2751	Transistor - AM 1st. I.F. AM 455 KHz		964-19613	.0033 MF Capacitor - 500V. (2 Req.)	.40
*95-2752	Transformer - AM 2nd I.F. AM 455 KHz		964-19638	.05 MF Capacitor - 100V. (6 Req.)	.70
*95-2753	Transformer - FM 1st I.F. 10.7 MHz		964-19755	100 PF Capacitor - 500V. (2 Req.)	.15
*95-2754	Transformer - FM 2nd I.F. 10.7 MHz		964-19758	1 MF Electrolytic Capacitor - 15V.	.85
*95-2755	Transformer - FM 3rd I.F. 10.7 MHz		964-20622	Terminal - Male	.15
*95-2756	Transformer - FM Ratio Detector 10.7 MHz		964-20623	Terminal - Female	.15
*95-2856	Multiplex Doubler Coil - 19 KHz	1.30	964-21866	Rectifier	.80
*95-2857	Multiplex Detector Coil - 38 KHz	1.30	964-22009	Transistor - Pre-Amp. (4 Req.)	1.36
*95-2858	Multiplex Input Coil - 19 KHz	1.30	964-22099	4.7 Megohm Resistor - 1/2W. 10% (2 Req.)	.17
100-249	Indicator Lamp (3 Req.)	.18	964-23096	1000 MF Electrolytic Capacitor - 25V.	.45
103-23	Germanium Diode (6 Req.)	.75	964-24412	Tone Control - 3M	4.95
103-47	Diode AFC	3.75	*964-25046	Diode (2 Req.)	.75
103-90	Germanium Diode - Matched Pair	2.00	*964-25138	47 PF Capacitor - 500V. (2 Req.)	.20
103-96	Diode, Zener	1.90	*964-25591	36 PF Capacitor - 500V. (2 Req.)	.20
*105-107	Integnet - 38 KHz Filter	1.00	*964-25592	Volume Control - 500K (2 Req.)	2.25
114-689	8-18 x 1/2 Hex Hd. Spec. Washer (Spinlock) Self-Tap. Screw-Stat. Bronze (2 Join Wavemagnet Assem. & 83-3561)	.03	*964-25771	Power Transformer	11.00
114-801	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze (3 Mt. Chassis, 12-5508, 1 Mts. 83-8122 & 2 Mts. 12-5420) (9 Req.)	.03	*964-25868	43 Ohm Resistor - 1/2W. 5% (2 Req.)	.15
114-864	8-18 x 3/8 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (1 Mts. ea. 17-143) (2 Req.)	.03	*964-25922	33 MFD. Capacitor - 16V. (2 Req.)	.55
114-1053	6-20 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Cadmium	.05	*964-27674	4.7 Megohm Resistor - 1/2W. 5% (2 Req.)	.34
*114-1127	8-18 x .800 x 1/4 Hex Washer Hd. Self-Tap. Shoulder Screw (2 Mt. Pulley)		*964-27675	820K Ohm Resistor - 1/2W. 5% (2 Req.)	.34
*114-1129	4-24 x 1/2 x 3/16 Slotted Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Used on ea. 121-853X) (4 Req.)		*964-28317	Heat Sink (Used w/bd. Marked 25530)	
121-430	Transistor - Audio - Amp (2 Req.)	1.10D**	*964-28504	Heat Sink (Used w/bd. Marked 27958)	
121-433	Transistor - Pre-Amp. (2 Req.)	1.30D**			
121-546	Transistor - AM-FM 2nd. I.F., FM 3rd I.F. (2 Req.)	.80D**	MODEL B545W		
121-613	Transistor - Autodyne Converter - FM	.80D**	CABINET COMPONENTS		
121-614	Transistor - AM-FM 1st. I.F.	.80D**	*56-560	Needle (Part of 142-175)	3.35
121-639	Transistor - Comp. Amp., 19 KHz Amp. & 38 KHz Amp., Tuning Meter Control (4 Req.)	.70D**	83-2790	Motorboard Protector	.05
121-714	Transistor - AM Converter	.80	*142-175	Cartridge - .7 Mil. Diamond & 3 Mil. Mfg. Sapphire (Part of 169-407)	5.60
*121-737	Transistor - Stereo Indicator Switch	.95	*169-407	4 Speed Record Changer (See Changer Parts List for Components)	
*121-767	Transistor - Bias Control (2 Req.)	.68	*902-703	Instruction Book	
*121-768	Transistor - Pre-Driver (2 Req.)	1.20	964-12916-A	Eyelet - Nickel Plate (Bottom of ea. Remote Speaker)	.25
*121-773	Transistor - Driver (2 Req.)	.72	964-13621	Terminal - Amp.	.05
*121-774	Transistor - Driver (2 Req.)		964-14195	Bumper (Inside Changer Compartment)	.35
*121-853X	Transistor - Output - Matched Pair (2 Req.)		964-14220	Plug Housing, Amp.	.30
*121-858	Transistor - Biplex Detector		*964-14605-H	6 x 1/2 Truss Screw-Stat. Bronze (8 Mts. Speaker Grille)	.03
149-311	Ferrite Core (Sleeve) (2 Req.)	.05	964-15821	Cable Retainer (Inside Changer Compartment)	.05
*149-426	Ferrite Core, Antenna Rod (Part of S-88463)		964-16380	Machine Screw (2 Used on Pivot)	.10
188-140	Retaining Ring	.03	*964-16579	Lock Washer (2 Used on Pivot)	.05
			964-16580	Eyelet, Pivot (2 Req.)	.10
			964-17170	Amp. Terminal - .205 Flat	.03
			*964-17310	Bumpers (4 Req.)	

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PART NUMBER	DESCRIPTION	PRICE
CABINET COMPONENTS (Continued)		
964-17602-F	Bushing, Pivot (2 Req.)	.30
964-18243-3	Power Cord	2.00
*964-18315	Tee Nut, Pivot (2 Required)	.20
964-18586-9	45 RPM Adapter Clamp (Spindle Clip)	.30
*964-19996-9	Eyelet (Back of Unit, Middle)	
*964-20113	6-32 x 3/4 Wafer Hd. Screw (4 Mts. Transformer & Chassis)	.10
964-20641	Catch, Chrome (2 Req.)	1.75
964-20746-3	Remote Cable Assem. (2 Req.)	.25
*964-23137	'U' Channel - Chrome (Front of Drop Seat)	
964-23138	Strike, Chrome (2 Req.)	.35
964-23139-C	Nail, Chrome (Used on Drop Seat, Left & Right Sides for 'U' Channel)	.05
*964-23140-H	Strike - Stat. Bronze (Mounted on Drop Seat, Right Side)	.50
*964-23141-3	Catch (Inside Cabinet - Right Side)	.40
*964-23279-A	Logo - Zenith	.95
*964-24020	5 1/4" Speaker (2 Req.)	9.60
*964-24458	Knob Assem. (3 Req.) (Orange Marker)	.60
-OR-		
964-27728-9C	Knob Assem. (3 Req.) (Marker on Rim)	
*964-24783-H	Hinge, Male - Stat. Bronze (Used on top left Remote Speaker)	.55
*964-24784-H	Hinge, Female - Stat. Bronze (Used on Main Cabinet - Left Side) (2 Required)	.55
*964-24785-H	Hinge, Male - Stat. Bronze (Used on Top Right Remote Speaker)	.55
*964-24786-H	Hinge, Female - Stat. Bronze (Used on Main Cabinet - Right Side)	.55
*964-25134-H	Hinge, Male - Stat. Bronze (Used on Bottom Right Remote Speaker)	.55
*964-25136-H	Hinge, Male - Stat. Bronze (Used on Bottom Left Remote Speaker)	.55
*964-25273	6-32 x 1 3/4 Wafer Hd. Screw (8 Req.)	.03
*964-25523-F	Control Plate	
*964-25584	Case Assem. W/Hardware	
*964-25585-F	Packing Carton	
*964-25587	Transistor Layout & Patent Label	.05
*964-25746	Audio Cable	2.15
*964-25778	Handle	3.60
*964-26335	Changer Cups (4 Req.)	.55
S-72648	45 RPM Adapter	1.80

MODEL B553W CHASSIS COMPONENTS

63-1771	470 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
63-1897	470K Ohm Resistor - 1/2W. 10% (4 Req.)	.17
63-2877	120K Ohm Resistor - 1/2W. 10% (4 Req.)	.17
63-7011	1000 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
800-294	Transistor Assem. - Matched Pair - Driver (NPN - PNP)	2.45
*964-9513	220K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
*964-9518	33K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
*964-11143	1500 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
*964-11582	6800 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
*964-13591	8200 Ohm Resistor - 1/2W. 10%	.17
964-16327	Tinnerman Clip (4 Mt. 800-294)	
964-16380	Machine Screw, Pivot Assem. (2 Req.)	.10
*964-16579	Lock Washer, Pivot Assem. (2 Req.)	.05
964-16580	Eyelet, Pivot Assem. (2 Req.)	.10
*964-18315	Tee Nut, Pivot Assem. (2 Req.)	.20
*964-19611	Capacitor - .001 MF (4 Req.)	.20
964-19614	Capacitor - .01 MF (2 Req.)	.45
964-19615	Capacitor - 5 MFD. 15V.	.85
964-19638	Capacitor - .05 MFD. 100V. (4 Req.)	.70
964-19755	Capacitor - 100 PF 500V. (2 Req.)	.15
964-19758	Capacitor - 1 MF 15V. (4 Req.)	.85
*964-19839	Capacitor - 470 PF - 500V. (4 Req.)	.15
964-20061	Capacitor - 10 MFD - 15V	1.25
*964-20113	6-32 x 3/4 Wafer Hd. Screw (2 Mt. Transformer Inside Changer Compartment)	.10
964-20622	Terminal - Male (7 Req.)	.15
964-20623	Terminal - Female (7 Req.)	.15

PART NUMBER	DESCRIPTION	PRICE
964-21866	Rectifier (2 Req.)	.80
964-22009	Transistor - Pre-Amp. - NPN (4 Req.)	1.36
964-22099	4.7 Megohm Resistor - 1/2W. 10% (6 Req.)	.17
*964-24387	Diode (4 Req.)	.35
*964-24738	Tone Control - Bass - 500K	7.00
*964-24739	Control - Loudness 250K	8.00
*964-25010	Control - Balance 300K	3.75
*964-25011	Tone Control - Treble 3M	7.00
*964-25274	Nut, Push In (2 Req.)	.20
*964-25776	8 x 1 x 1/4 Hex Hd. Screw (2 Req.)	.05
*964-25784	Capacitor - 1000 MF 35 V.	3.00
*964-25865	Capacitor - .022 MF - 500V. (2 Req.)	.20
*964-25902	2.2 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
964-25903	Capacitor - 250 MFD. - 25V. (2 Req.)	1.30
*964-25922	Capacitor - 33 MFD - 16V. (2 Req.)	.55
*964-25923	Hum Shield (Changer Compartment)	
*964-26341	Heat Sink	.55
*964-26371	15 Ohm Resistor - 1/2W. 5% (2 Req.)	.17
*964-26550	Transistor Holder (4 Req.)	.50
*964-26599	Audio Cable	
*964-27172	Power Transformer	
*964-27741	Capacitor - .0082 - 500V. (2 Req.)	.20
964-27986	Transistor - Output (Matched Pair)	3.00

MODEL B553W CABINET COMPONENTS

56-560	Needle (Part of 142-175)	3.35
83-2790	Motorboard Protector (2 Req.)	.05
*142-175	Cartridge - .7 Mil. Dia. & 3 Mil. Mfg. Sapphire (Part of 169-408)	5.60
*169-408	4 Speed Record Changer (See Changer Parts List for Components)	
*902-702	Instruction Book	
964-9197	6-32 Hex Nut (12 Req.)	.03
964-12128-H	6 x 7/8 Truss Screw (4 Req.)	.03
*964-12916-A	Eyelet (Bottom of Remote Speaker) (2 Req.)	.25
964-13364-9	6 x 3/8 Truss Screw (2 Req.)	.03
964-13621	Amp. Terminal (2 Req.)	.05
964-14195	Bumper (Changer Compartment)	.35
964-14220	Plug Housing Amp.	.30
*964-14605-H	6 x 1/2 Truss Screw (8 Req.)	.03
*964-14902-9	Hole Bottom (Side of Changer Door)	.40
964-15821	Cable Retainer	.05
964-17170	Amp. Terminal - .205 Flat (4 Req.)	.03
*964-17310	Bumper, Case Bottom (4 Req.)	.05
964-17445	Cable Clamp	.10
964-17602-F	Bushing (2 Req.)	.30
964-18243-3	Power Cord	2.00
*964-18368-H	Hinge - Female W/Stop - Stat. Bronze - Left (2 Req.)	.55
964-18369-H	Hinge - Female W/Stop - Stat. Bronze - Right (2 Req.)	.75
964-18586-9	45 RPM Spindle Clip	.30
*964-19998-9	Eyelet (Back of Cabinet)	
*964-20040-H	Eyelet - Stat. Bronze (Changer Compartment, Right Side)	.05
964-20641	Catch - Chrome (2 Req.)	1.75
964-20746-3	Remote Cable Assem. (2 Req.)	.25
964-21389	6 x 3/8 Hex Hd. Screw (2 Req.)	.70
964-23138	Strike - Chrome (2 Req.)	.35
*964-23279-A	Logo - Zenith	.95
*964-23362	Amp. Terminal	.20
*964-24199	Audio Cable	
*964-25120	Case Assem.	
*964-25123-F	Packing Carton	
*964-25124	Control Plate	2.20
*964-25126	Transistor Layout & Patent Label	.10
*964-25181	6-32 x 1" Speaker Mtg. Screw (8 Req.)	.20
*964-25234	Escutcheon	2.90
*964-25395	Door Stay, Stat. Bronze	
*964-25397	Handle	
*964-25398-9	10-24 x 3/4 Handle Mtg. Screw (2 Req.)	.20
*964-25775	6 x 9 PM Speaker - 8 Ohm (2 Req.)	15.50
*964-25777	Changer Insert	
*964-25781	Bracket (2 Req.)	.05

*Denotes parts not previously used in Zenith receivers.

**PART
NUMBER**

DESCRIPTION

PRICE

MODEL B553W

CABINET COMPONENTS (Continued)

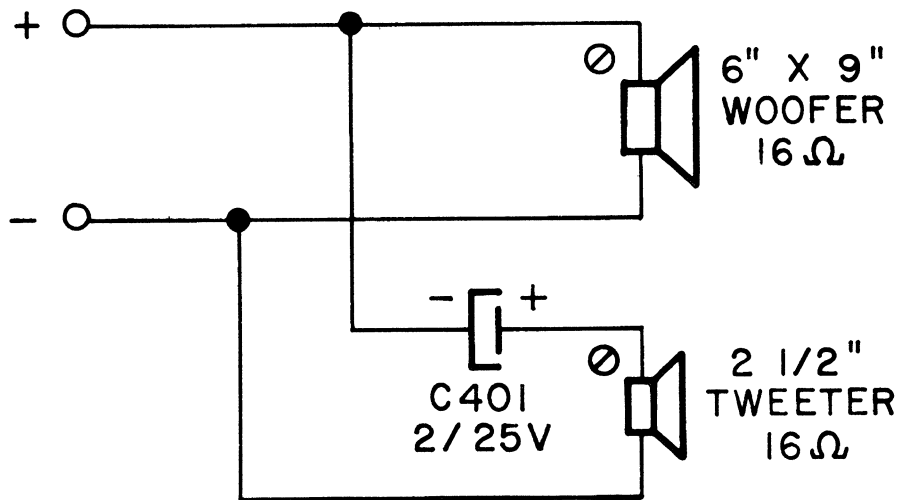
*964-25787	6 x 1/8 Hex Hd. Slot Screw (2 Req.)	.05
*964-25799-H	Hinge - Male - Long Pin - Stat. Bronze (Left)	.60
*964-25800-H	Hinge - Male - Short Pin - Stat. Bronze (Right)	.60
*964-25801-H	Hinge - Male - Long Pin - Stat. Bronze (Right)	.60
*964-25802-H	Hinge - Male - Short Pin - Stat. Bronze (Left)	.60
*964-25806	6-32 x 1-1/4 Screw (2 Mt. Amp. Inside Changer Compartment, Rear)	.20
*964-25832	4 x 3/8 Screw (3 Req.)	
*964-25876-514	Knob (4 Req.)	
*964-26343	Spacer (Inside Changer Compartment) (2 Req.)	
*964-26600	Catch (Top Right Side of Main Cabinet)	1.15
S-72648	45 RPM Adapter	1.80

MODEL C9015

*802-10B	Back Board	
*814-176B	Cabinet	
*816-90B	Carton Case - Inside (1 Pr.)	
*816-91B	Carton Case - Outside (3 Pr.)	
*822-920B	2 MF Condenser	
*849-70B	6" x 9" Speaker	
*849-71B	2-1/2" Speaker	
*852-46B	4.6M Cable	
*854-99B	3MM Nut for Speaker & Terminal (10 Req.)	
*854-100B	Speed Nut	
*857-562B	Name Plate	
*883-281B	040MM Fibre Glass 15 x 160 x 1	
*883-282B	15 x 250 x 330MM Fibre Glass	
*883-283B	Terminal Strip	
*893-248B	3 x 8 x 0.5MM Washer (8 Req.)	
*893-249B	3MM Spring Washer (8 Req.)	
*910-811B	Grille Cloth	
*912-594B	3.1 x 20 Screw	
*912-595B	3.1 x 13 Screw (10 Used on 802-10B)	
*912-596B	3 x 10 Screw (2 Used on 883-283B)	

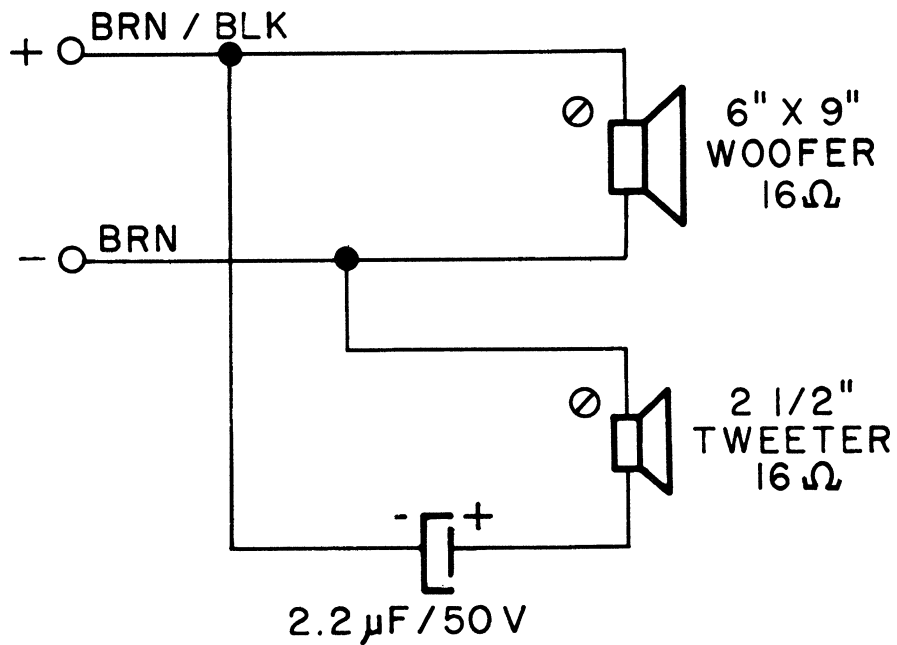
*Denotes parts not previously used in Zenith receivers.

C9015



⊙ INDICATES VOICE COIL
POLARITY IDENTIFICATION DOT ON SPEAKER.

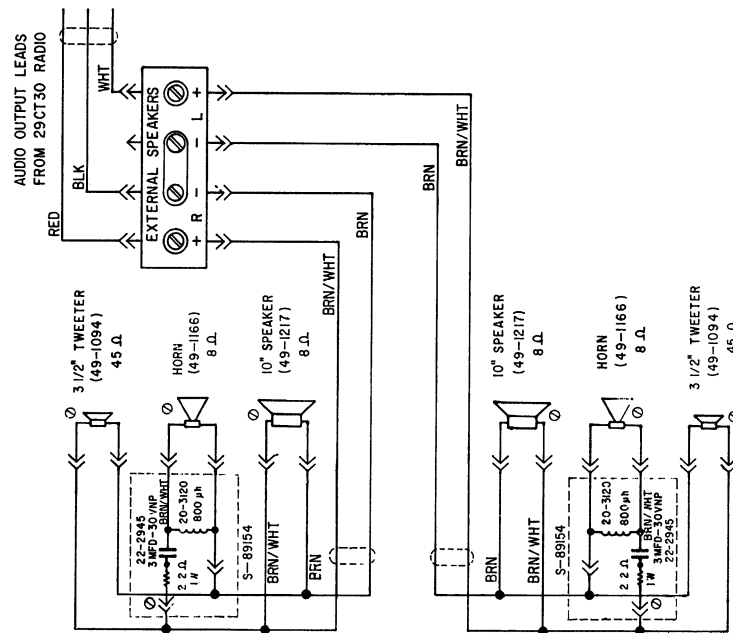
C9016



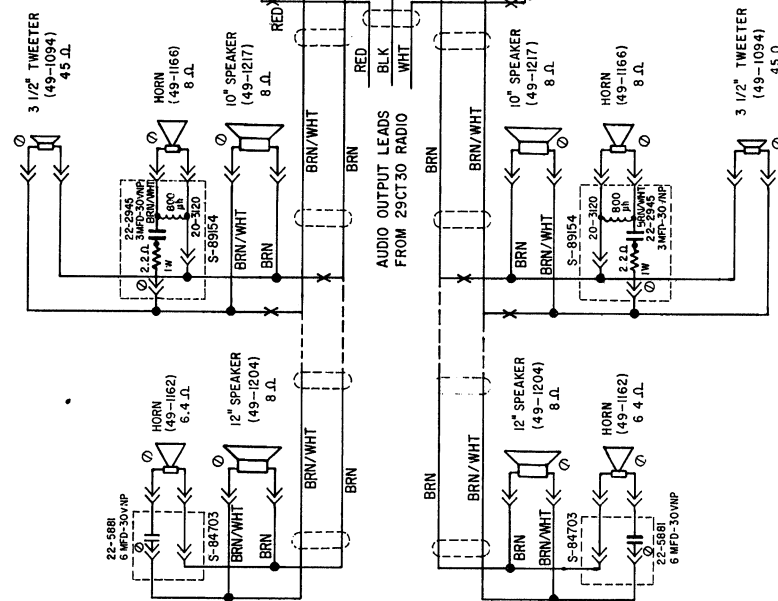
⊙ INDICATES VOICE COIL
POLARITY IDENTIFICATION DOT ON SPEAKER.

SPEAKER WIRING SCHEMATICS

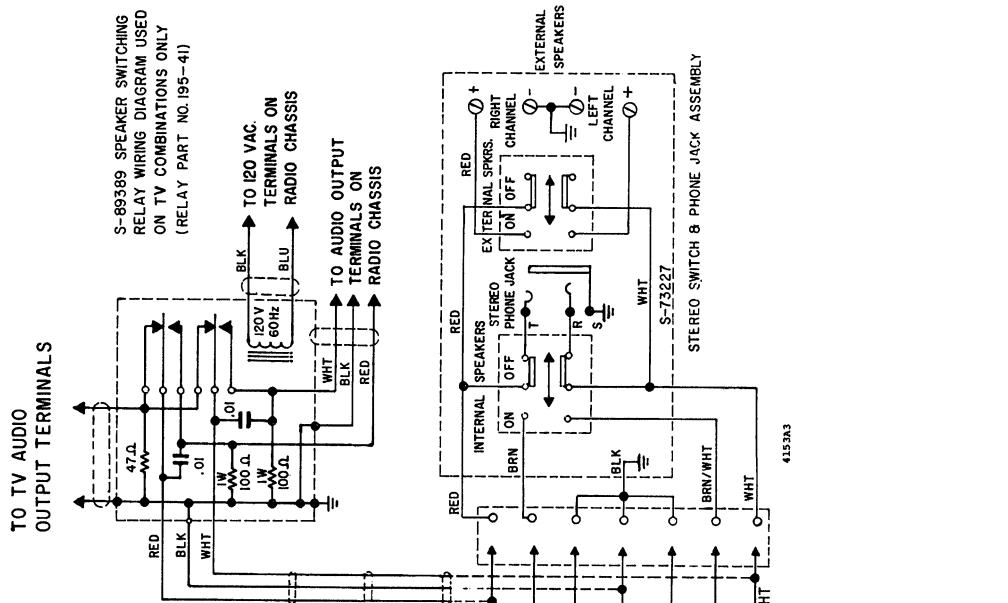
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C930W, C937M & C939DE**



**SPEAKER WIRING FOR
MODEL C8720WII**



**SPEAKER WIRING FOR MODELS:
C941P & C945DE**



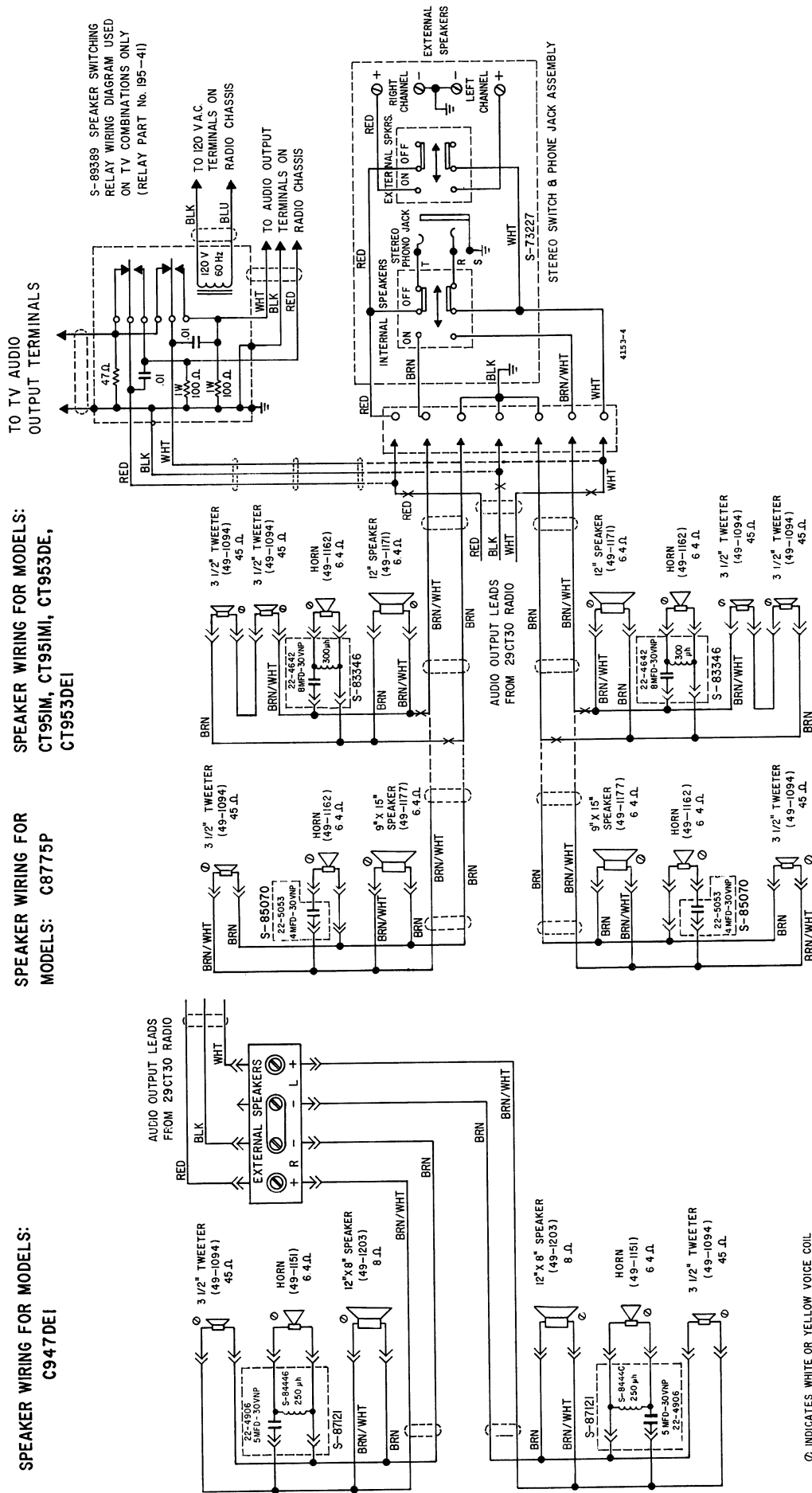
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POLARITY IDENTIFICATION DOT ON SPEAKER

SPEAKER WIRING SCHEMATICS

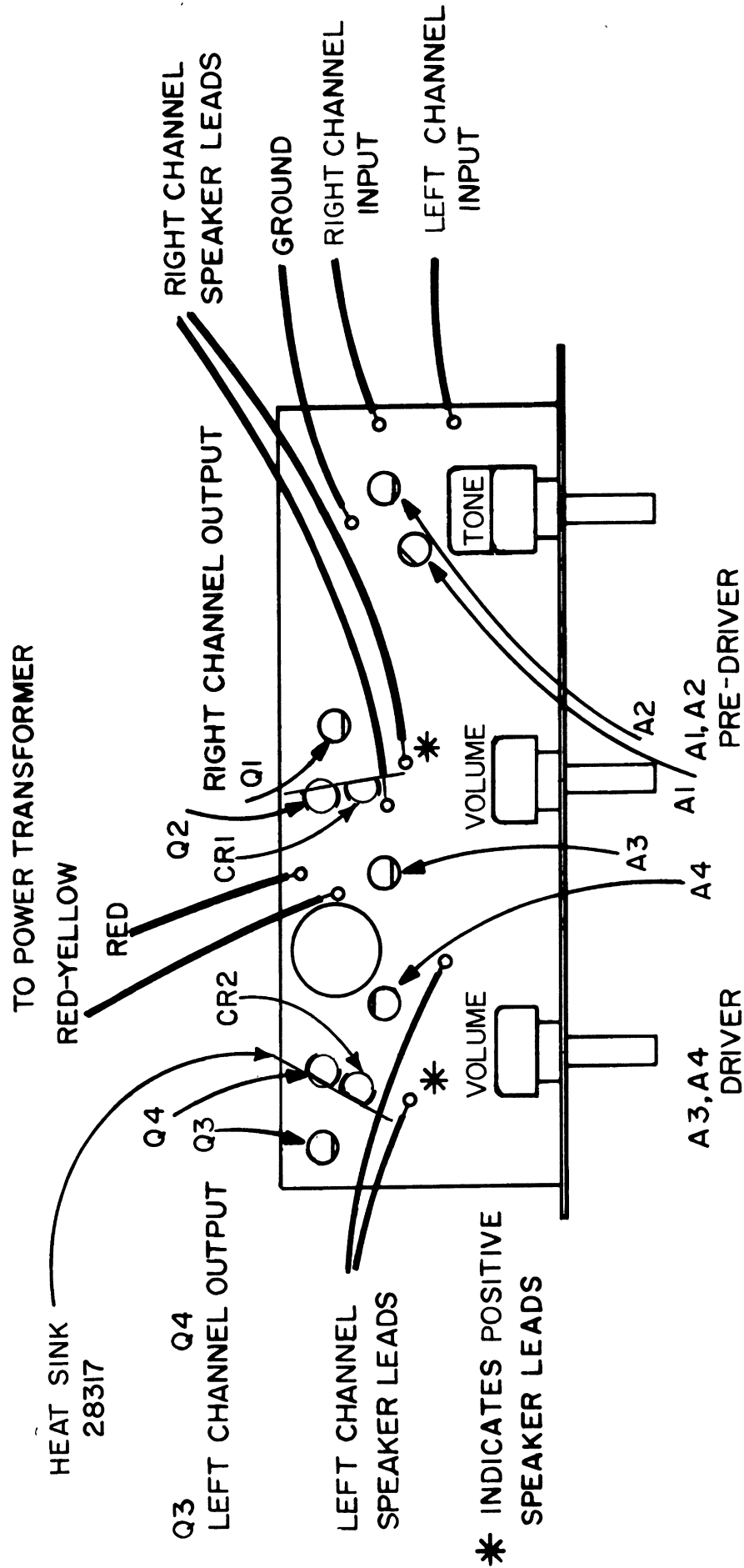
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C947DEI**

**SPEAKER WIRING FOR
MODELS: C8775P**

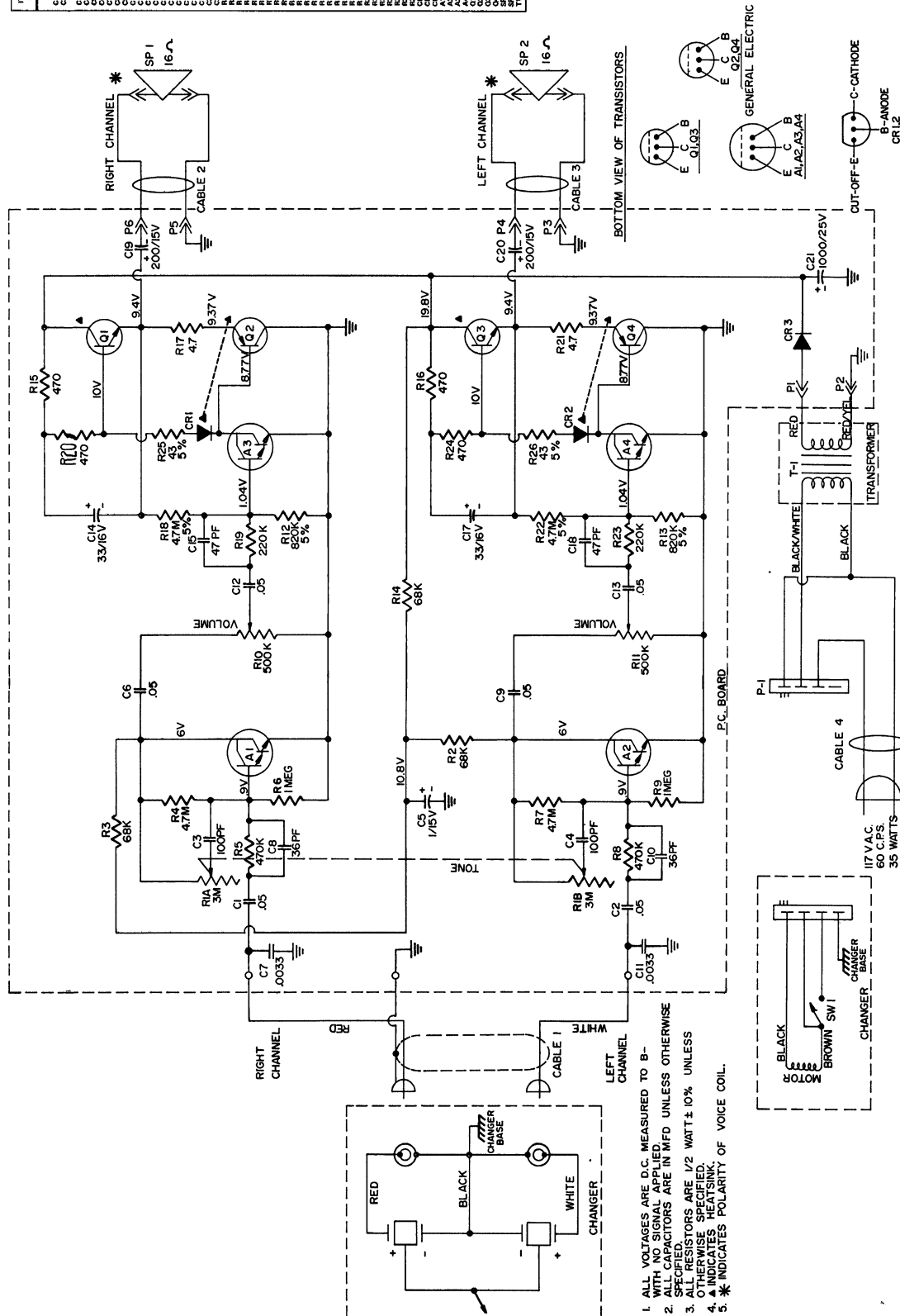
**SPEAKER WIRING FOR MODELS:
CT95IM, CT95IMI, CT953DE,
CT953DEI**



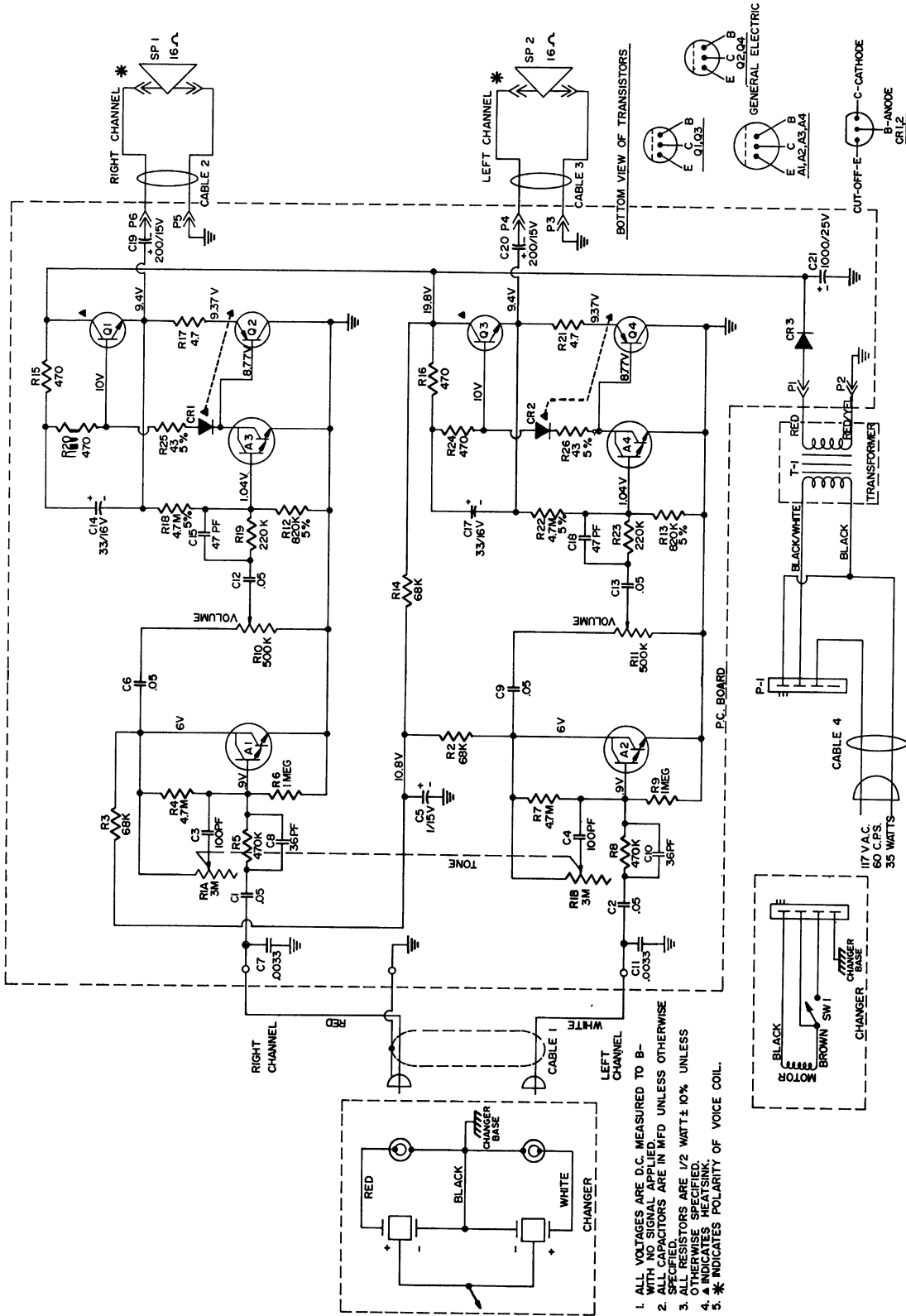
SPEAKER WIRING SCHEMATICS



ITEM NO.	PART NO.	DESCRIPTION	LEGEND MODEL, BROW
C1	904-1528	.25 MF 10V	
C2	904-1529	.25 MF 10V	
C3	904-1530	100 PF 50V	
C4	904-15755	100 PF 50V	
C5	904-15756	100 PF 50V	
C6	904-15757	100 PF 50V	
C7	904-15758	100 PF 50V	
C8	904-15759	100 PF 50V	
C9	904-15760	100 PF 50V	
C10	904-15761	100 PF 50V	
C11	904-15762	100 PF 50V	
C12	904-15763	100 PF 50V	
C13	904-15764	100 PF 50V	
C14	904-15765	100 PF 50V	
C15	904-15766	100 PF 50V	
C16	904-15767	100 PF 50V	
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C198	904-2703	25 MF ELECTROLYTIC 10V	
C199	904-2704	25 MF ELECTROLYTIC 10V	
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C269	904-2774	25 MF ELECTROLYTIC 10V	
C270	904-2775	25 MF ELECTROLYTIC 10V	
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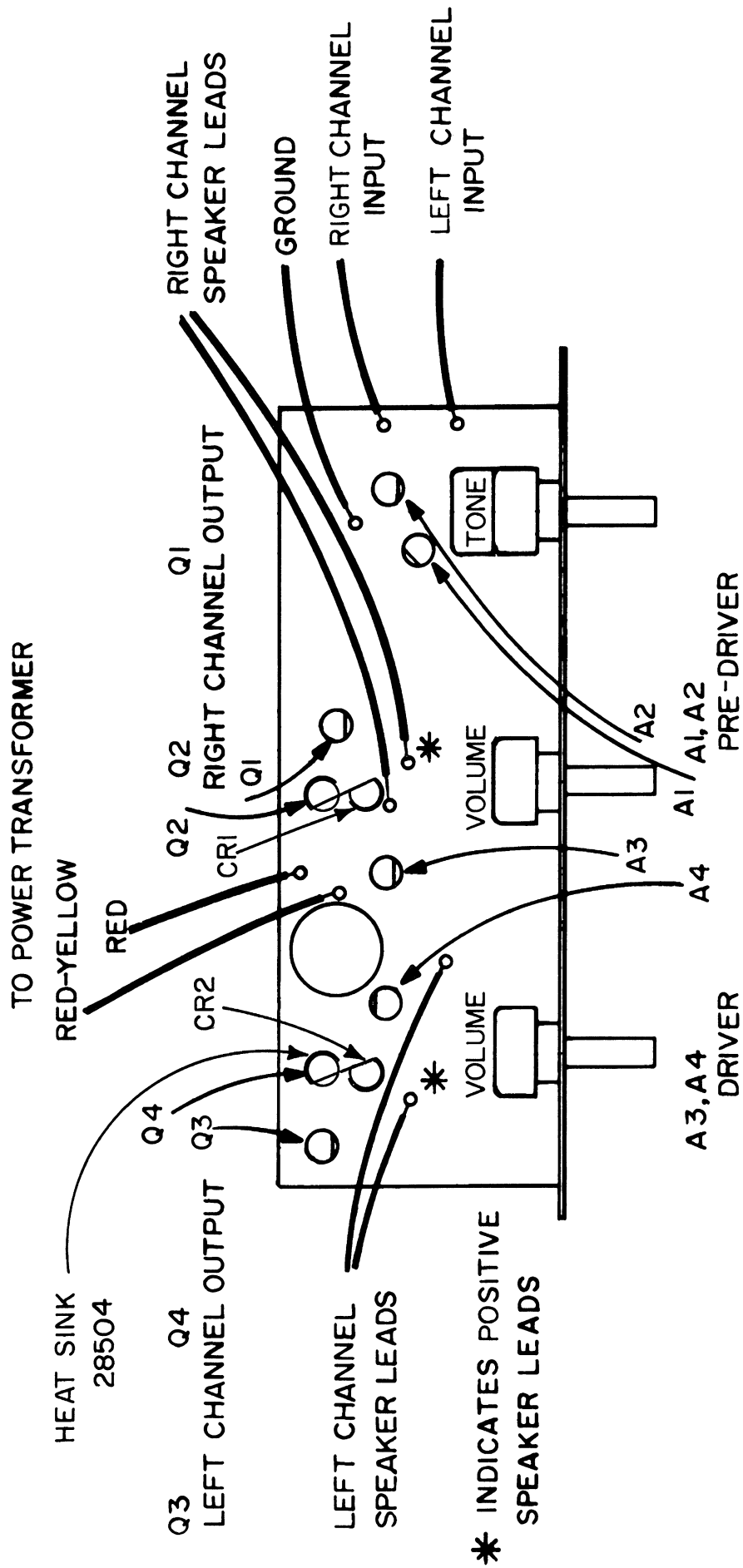


ITEM NO.	PART NO.	DESCRIPTION
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C2	944-18238	.05 MF 100V
C3	944-18238	.05 MF 100V
C4	944-18238	.05 MF 100V
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C91	944-18238	.05 MF 100V
C92	944-18238	.05 MF 100V
C93	944-18238	.05 MF 100V
C94	944-18238	.05 MF 100V
C95	944-18238	.05 MF 100V
C96	944-18238	.05 MF 100V
C97	944-18238	.05 MF 100V
C98	944-18238	.05 MF 100V
C99	944-18238	.05 MF 100V
C100	944-18238	.05 MF 100V



1. ALL VOLTAGES ARE D.C. MEASURED TO B- WITH NO SIGNAL APPLIED.
2. ALL CAPACITORS ARE IN MFD UNLESS OTHERWISE SPECIFIED.
3. RESISTORS ARE 1/2 WATT ± 10% UNLESS OTHERWISE SPECIFIED.
4. * INDICATES HEATSINK.
5. * INDICATES POLARITY OF VOICE COIL.

B545 - SCHEMATIC - LATER PRODUCTION

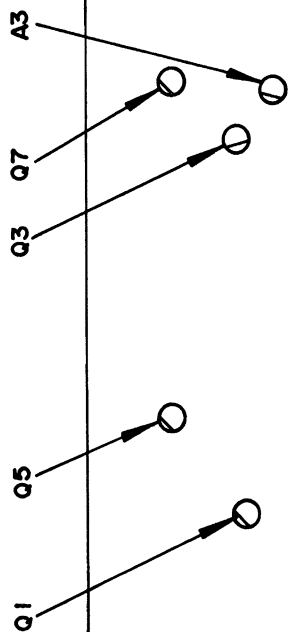


B545 - CHASSIS LAYOUT - LATER PRODUCTION

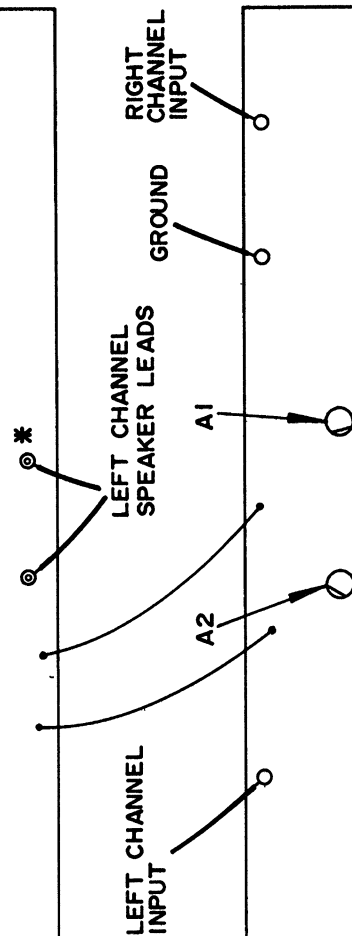
TO POWER TRANSFORMER

RED-YELLOW RED

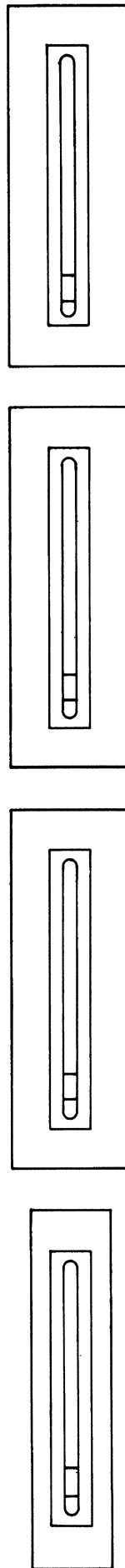
RED



BOTTOM BOARD




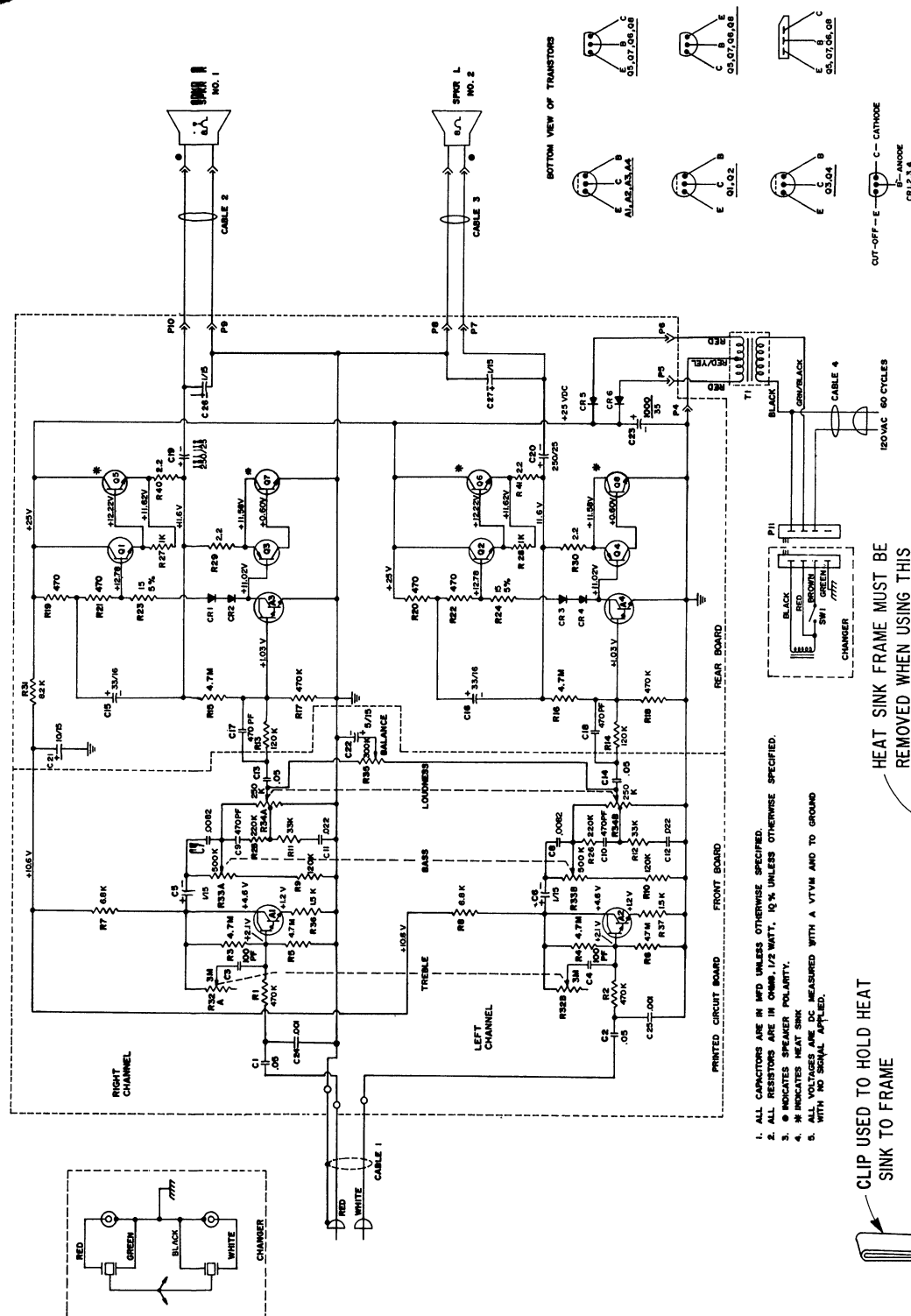
TOP BOARD



* INDICATES POSITIVE SPEAKER LEADS

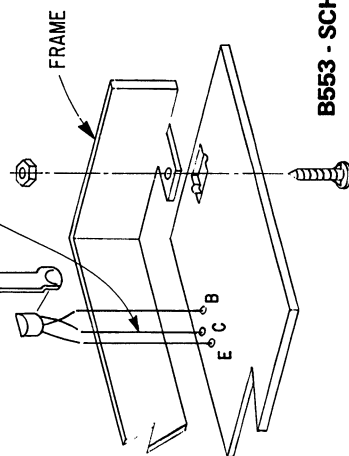
ITEM NO.	PART NO.	DESCRIPTION
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C2	800-1000	2.5 OHM 1/2W 100V
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C6	800-1000	100 OHM 1/2W 100V
C7	800-1000	100 OHM 1/2W 100V
C8	800-1000	100 OHM 1/2W 100V
C9	800-1000	100 OHM 1/2W 100V
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C226	800-1000	100 OHM 1/2W 100V
C227	800-1000	100 OHM 1/2W 100V
C228	800-1000	100 OHM 1/2W 100V
C229	800-1000	100 OHM 1/2W 100V
C230	800-1000	100 OHM 1/2W 100V
C231	800-1000	100 OHM 1/2W 100V
C232	800-1000	100 OHM 1/2W 100V
C233	800-1000	100 OHM 1/2W 100V
C234	800-1000	100 OHM 1/2W 100V
C235	800-1000	100 OHM 1/2W 100V
C236	800-1000	100 OHM 1/2W 100V
C237	800-1000	100 OHM 1/2W 100V
C238	800-1000	100 OHM 1/2W 100V
C239	800-1000	100 OHM 1/2W 100V
C240	800-1000	100 OHM 1/2W 100V
C241	800-1000	100 OHM 1/2W 100V
C242	800-1000	100 OHM 1/2W 100V
C243	800-1000	100 OHM 1/2W 100V
C244	800-1000	100 OHM 1/2W 100V
C245	800-1000	100 OHM 1/2W 100V
C246	800-1000	100 OHM 1/2W 100V
C247	800-1000	100 OHM 1/2W 100V
C248	800-1000	100 OHM 1/2W 100V
C249	800-1000	100 OHM 1/2W 100V
C250	800-1000	100 OHM 1/2W 100V
C251	800-1000	100 OHM 1/2W 100V
C252	800-1000	100 OHM 1/2W 100V
C253	800-1000	100 OHM 1/2W 100V
C254	800-1000	100 OHM 1/2W 100V
C255	800-1000	100 OHM 1/2W 100V
C256	800-1000	100 OHM 1/2W 100V
C257	800-1000	100 OHM 1/2W 100V
C258	800-1000	100 OHM 1/2W 100V
C259	800-1000	100 OHM 1/2W 100V
C260	800-1000	100 OHM 1/2W 100V
C261	800-1000	100 OHM 1/2W 100V
C262	800-1000	100 OHM 1/2W 100V
C263	800-1000	100 OHM 1/2W 100V
C264	800-1000	100 OHM 1/2W 100V
C265	800-1000	100 OHM 1/2W 100V
C266	800-1000	100 OHM 1/2W 100V
C267	800-1000	100 OHM 1/2W 100V
C268	800-1000	100 OHM 1/2W 100V
C269	800-1000	100 OHM 1/2W 100V
C270	800-1000	100 OHM 1/2W 100V
C271	800-1000	100 OHM 1/2W 100V
C272	800-1000	100 OHM 1/2W 100V
C273	800-1000	100 OHM 1/2W 100V
C274	800-1000	100 OHM 1/2W 100V
C275	800-1000	100 OHM 1/2W 100V
C276	800-1000	100 OHM 1/2W 100V
C277	800-1000	100 OHM 1/2W 100V

EARLY PRODUCTION
USING T-I POWER TRANSISTORS
ZENITH PART No. 964-24584

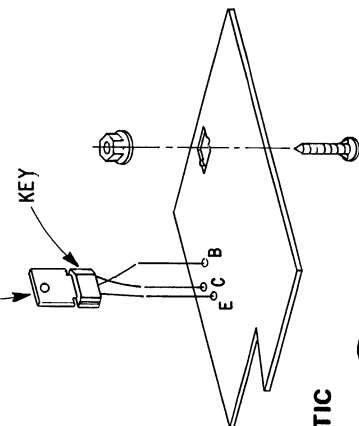


CLIP USED TO HOLD HEAT SINK TO FRAME

COLLECTOR LEAD IS TO BE INSULATED.



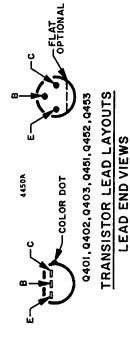
B553 - SCHEMATIC



LATER PRODUCTION
USING G-E POWER TRANSISTORS
ZENITH PART No. 964-27986

40

Item No.	Part No.	Description
C407	22-3034	.05 MFD DISC. 25V
C408	22-3035	.05 MFD DISC. 25V
C409	22-3036	1 MFD CAPACITOR 150V
C410	22-3037	1 MFD CAPACITOR 100V
C411	22-3038	1 MFD 100V
C412	22-3039	.015 MFD 50V
C413	22-3040	680 PF DISC. 100V
C414	22-3041	2 MFD ELECTROLYTIC 15V
C415	22-3042	100 MFD ELECTROLYTIC 50V
C416	22-3043	100 MFD ELECTROLYTIC 35V
C417	22-3044	750 PF DISC. 25V
C418	22-3045	3 MFD ELECTROLYTIC N.P. 30V
C419	22-3046	.05 MFD DISC. 25V
C420	22-3047	680 PF DISC. 100V
C421	22-3048	100 MFD ELECTROLYTIC 50V
C422	22-3049	100 MFD ELECTROLYTIC 35V
C423	22-3050	100 MFD ELECTROLYTIC 25V
C424	22-3051	3 MFD ELECTROLYTIC N.P. 30V
C425	22-3052	100 MFD DISC. 100VAC
C426	22-3053	.05 MFD DISC. 100V
C427	22-3054	50 MFD ELECTROLYTIC 15V
C428	22-3055	100 MFD ELECTROLYTIC 15V
C429	22-3056	100 MFD ELECTROLYTIC 15V
C430	22-3057	100 MFD ELECTROLYTIC 15V
C431	22-3058	100 MFD ELECTROLYTIC 15V
C432	22-3059	100 MFD ELECTROLYTIC 15V
C433	22-3060	100 MFD ELECTROLYTIC 15V
C434	22-3061	100 MFD ELECTROLYTIC 15V
C435	22-3062	100 MFD ELECTROLYTIC 15V
C436	22-3063	100 MFD ELECTROLYTIC 15V
C437	22-3064	100 MFD ELECTROLYTIC 15V
C438	22-3065	100 MFD ELECTROLYTIC 15V
C439	22-3066	100 MFD ELECTROLYTIC 15V
C440	22-3067	100 MFD ELECTROLYTIC 15V
C441	22-3068	100 MFD ELECTROLYTIC 15V
C442	22-3069	100 MFD ELECTROLYTIC 15V
C443	22-3070	100 MFD ELECTROLYTIC 15V
C444	22-3071	100 MFD ELECTROLYTIC 15V
C445	22-3072	100 MFD ELECTROLYTIC 15V
C446	22-3073	100 MFD ELECTROLYTIC 15V
C447	22-3074	100 MFD ELECTROLYTIC 15V
C448	22-3075	100 MFD ELECTROLYTIC 15V
C449	22-3076	100 MFD ELECTROLYTIC 15V
C450	22-3077	100 MFD ELECTROLYTIC 15V
C451	22-3078	100 MFD ELECTROLYTIC 15V
C452	22-3079	100 MFD ELECTROLYTIC 15V
C453	22-3080	100 MFD ELECTROLYTIC 15V
C454	22-3081	100 MFD ELECTROLYTIC 15V
C455	22-3082	100 MFD ELECTROLYTIC 15V
C456	22-3083	100 MFD ELECTROLYTIC 15V
C457	22-3084	100 MFD ELECTROLYTIC 15V
C458	22-3085	100 MFD ELECTROLYTIC 15V
C459	22-3086	100 MFD ELECTROLYTIC 15V
C460	22-3087	100 MFD ELECTROLYTIC 15V
C461	22-3088	100 MFD ELECTROLYTIC 15V
C462	22-3089	100 MFD ELECTROLYTIC 15V
C463	22-3090	100 MFD ELECTROLYTIC 15V
C464	22-3091	100 MFD ELECTROLYTIC 15V
C465	22-3092	100 MFD ELECTROLYTIC 15V
C466	22-3093	100 MFD ELECTROLYTIC 15V
C467	22-3094	100 MFD ELECTROLYTIC 15V
C468	22-3095	100 MFD ELECTROLYTIC 15V
C469	22-3096	100 MFD ELECTROLYTIC 15V
C470	22-3097	100 MFD ELECTROLYTIC 15V
C471	22-3098	100 MFD ELECTROLYTIC 15V
C472	22-3099	100 MFD ELECTROLYTIC 15V
C473	22-3100	100 MFD ELECTROLYTIC 15V
C474	22-3101	100 MFD ELECTROLYTIC 15V
C475	22-3102	100 MFD ELECTROLYTIC 15V
C476	22-3103	100 MFD ELECTROLYTIC 15V
C477	22-3104	100 MFD ELECTROLYTIC 15V
C478	22-3105	100 MFD ELECTROLYTIC 15V
C479	22-3106	100 MFD ELECTROLYTIC 15V
C480	22-3107	100 MFD ELECTROLYTIC 15V
C481	22-3108	100 MFD ELECTROLYTIC 15V
C482	22-3109	100 MFD ELECTROLYTIC 15V
C483	22-3110	100 MFD ELECTROLYTIC 15V
C484	22-3111	100 MFD ELECTROLYTIC 15V
C485	22-3112	100 MFD ELECTROLYTIC 15V
C486	22-3113	100 MFD ELECTROLYTIC 15V
C487	22-3114	100 MFD ELECTROLYTIC 15V
C488	22-3115	100 MFD ELECTROLYTIC 15V
C489	22-3116	100 MFD ELECTROLYTIC 15V
C490	22-3117	100 MFD ELECTROLYTIC 15V
C491	22-3118	100 MFD ELECTROLYTIC 15V
C492	22-3119	100 MFD ELECTROLYTIC 15V
C493	22-3120	100 MFD ELECTROLYTIC 15V
C494	22-3121	100 MFD ELECTROLYTIC 15V
C495	22-3122	100 MFD ELECTROLYTIC 15V
C496	22-3123	100 MFD ELECTROLYTIC 15V
C497	22-3124	100 MFD ELECTROLYTIC 15V

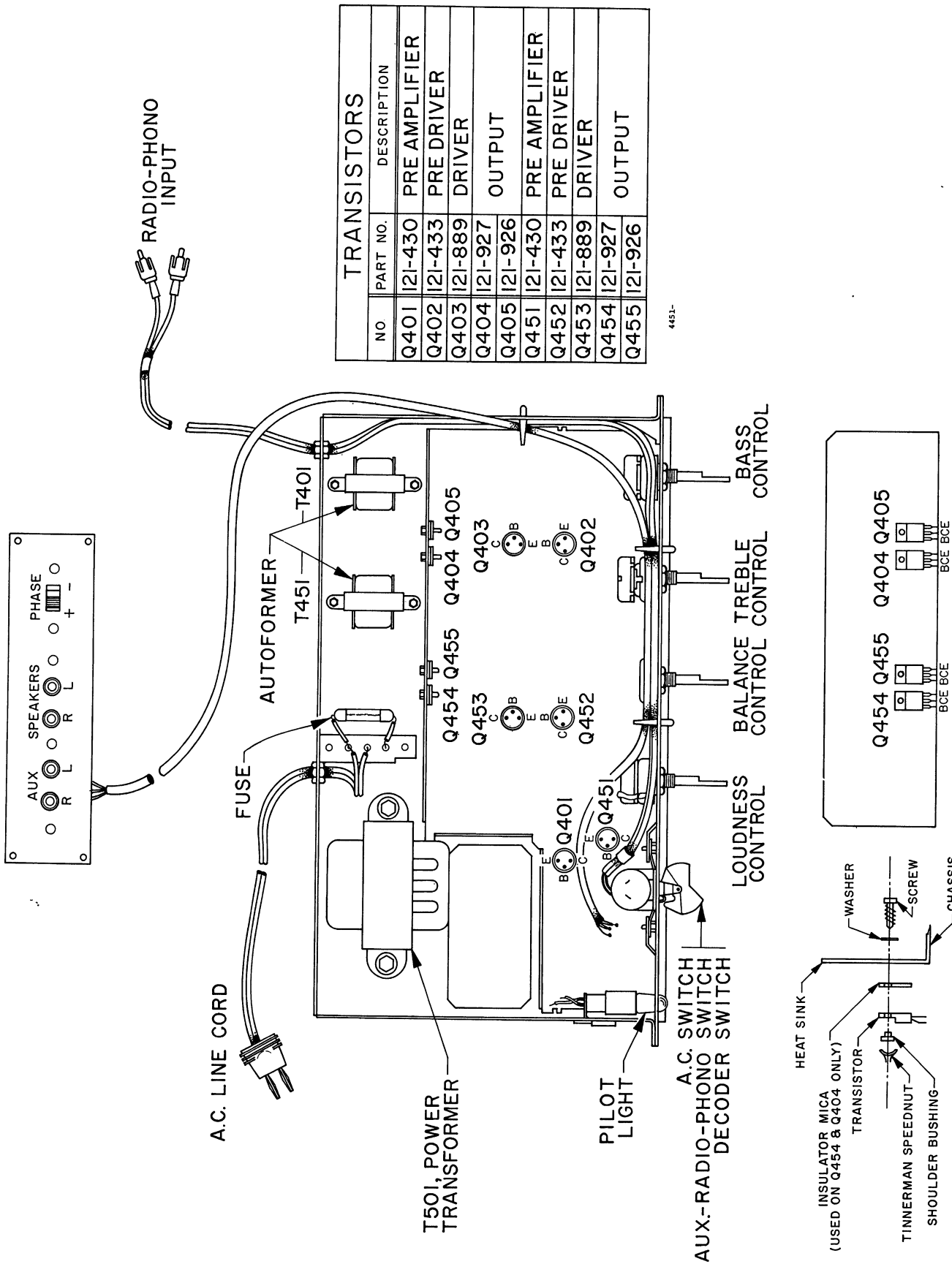


TRANSISTORS		
NO.	PART NO.	DESCRIPTION
Q401	121-430	PRE AMPLIFIER
Q402	121-433	PRE DRIVER
Q403	121-889	DRIVER
Q404	121-927	OUTPUT
Q405	121-926	OUTPUT
Q451	121-430	PRE AMPLIFIER
Q452	121-433	PRE DRIVER
Q453	121-889	DRIVER
Q454	121-927	OUTPUT
Q455	121-926	OUTPUT

NOTES:

- ALL RESISTORS IN OHMS, $\pm 0\%$, 1/2 WATT, CARBON UNLESS OTHERWISE SPECIFIED.
- ALL CAPACITORS IN MICROFARADS $\pm 10\%$ UNLESS OTHERWISE SPECIFIED.
- P INKINDATES $\pm 20\%$.
- ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED, D.C. VOLTAGES ARE MEASURED FROM CHASSIS WITH NO SIGNAL AND LOOSENESS CONTROL.
- V.T.V.M. LINE VOLTAGE 250 V.A.C.
- DENOTES CHASSIS GROUND.
- AUDIO OUTPUT TRANSISTORS Q404 TO Q405 (RIGHT CHANNEL) AND Q404 TO Q405 (LEFT CHANNEL) SHOULD BE REPLACED WHEN TRANSISTORS ARE INSTALLED.
- INDICATES VOLTAGE SOURCE
- REPLACES VOLTAGE SOURCE
- OUTPUT DEVICES MUST BE USED AS PAIRS FROM THE SAME MANUFACTURER IN EACH CHANNEL.

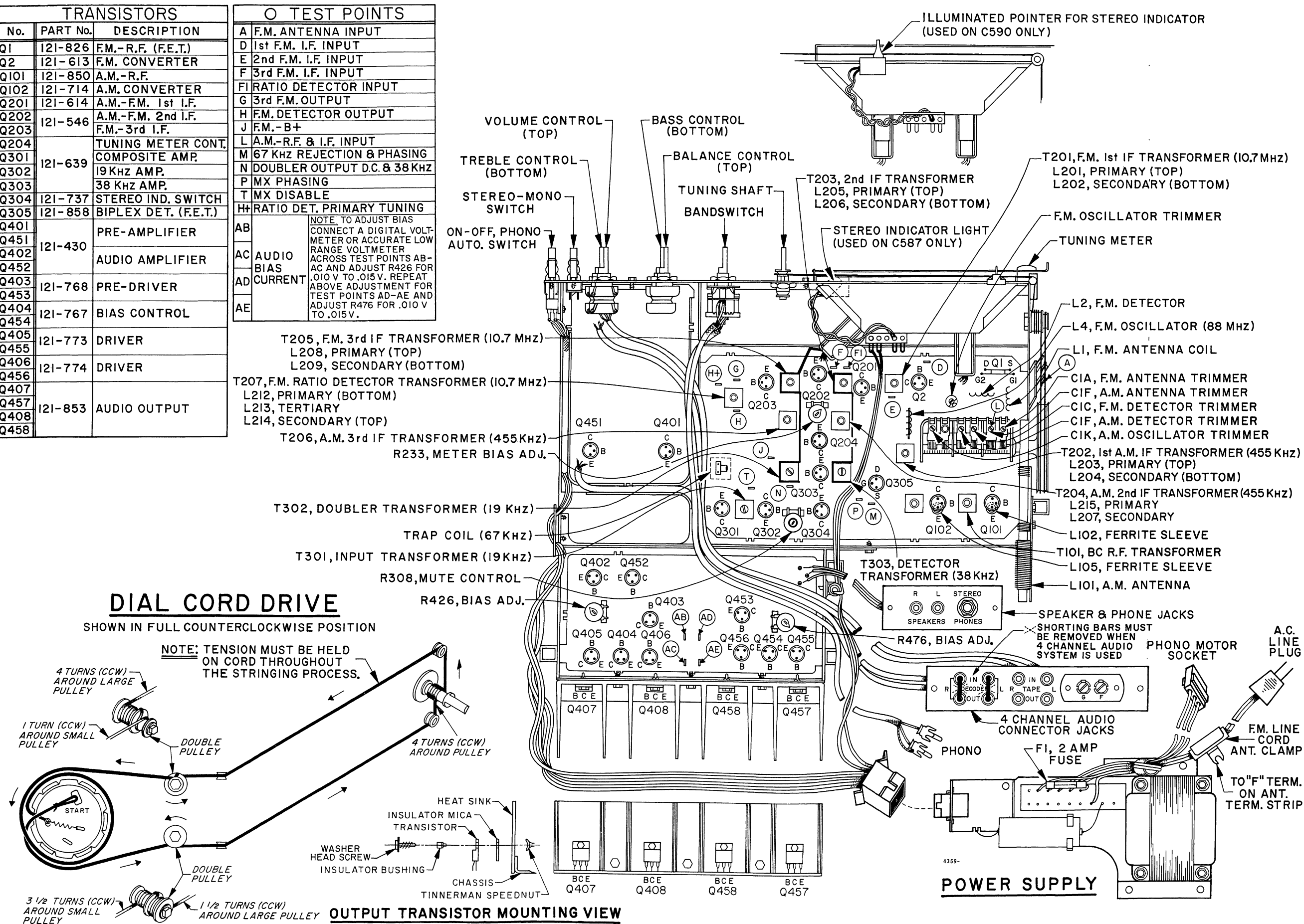
15WCA10 – SCHEMATIC

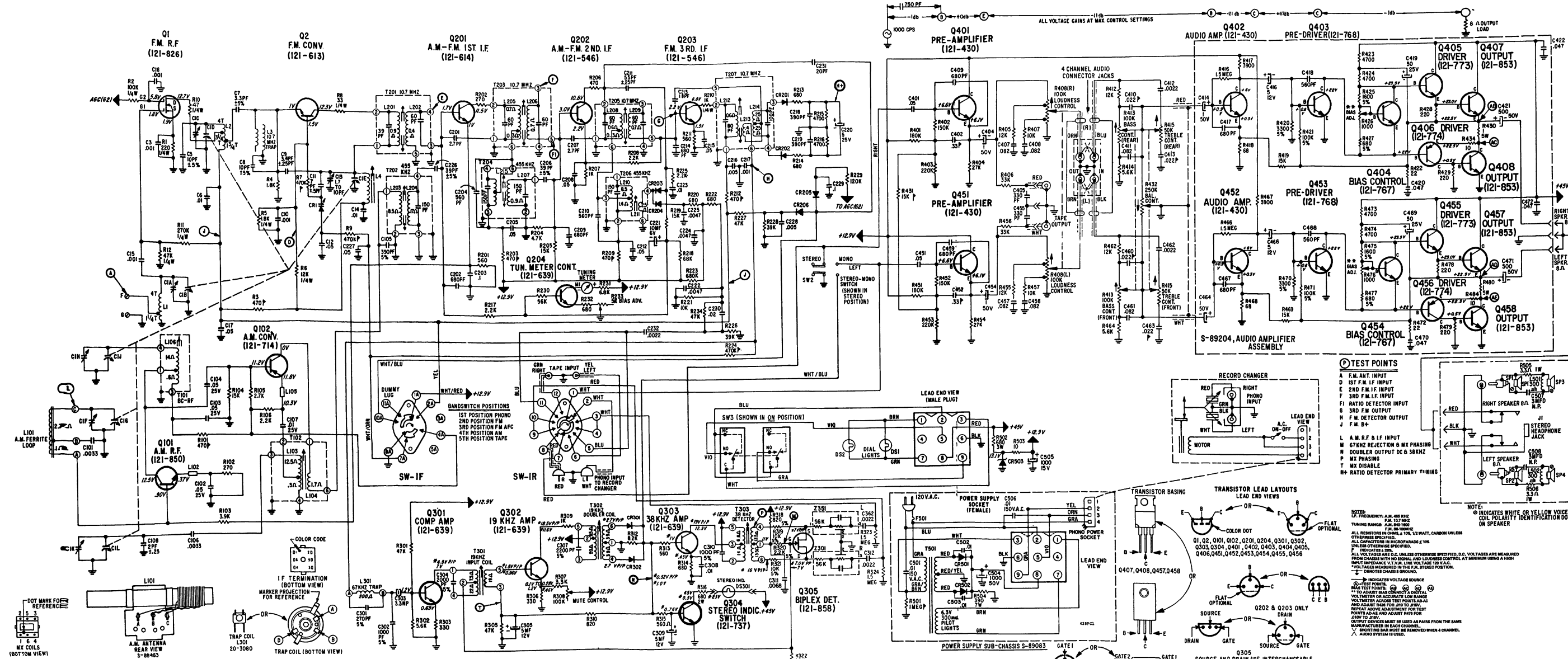


15WCA10 - CHASSIS LAYOUT

TRANSISTORS		
No.	PART No.	DESCRIPTION
Q1	121-826	F.M.-R.F. (F.E.T.)
Q2	121-613	F.M. CONVERTER
Q101	121-850	A.M.-R.F.
Q102	121-714	A.M. CONVERTER
Q201	121-614	A.M.-F.M. 1st I.F.
Q202	121-546	A.M.-F.M. 2nd I.F.
Q203		F.M.-3rd I.F.
Q204		TUNING METER CONT.
Q301	121-639	COMPOSITE AMP.
Q302		19 KHz AMP.
Q303		38 KHz AMP.
Q304	121-737	STEREO IND. SWITCH
Q305	121-858	BIPLEX DET. (F.E.T.)
Q401		PRE-AMPLIFIER
Q451	121-430	AUDIO AMPLIFIER
Q402		
Q452		AUDIO AMPLIFIER
Q403	121-768	
Q453		PRE-DRIVER
Q404	121-767	BIAS CONTROL
Q454		BIAS CONTROL
Q405	121-773	
Q455		DRIVER
Q406	121-774	DRIVER
Q456		DRIVER
Q407	121-853	
Q457		AUDIO OUTPUT
Q408		AUDIO OUTPUT
Q458		

O TEST POINTS		
A	F.M. ANTENNA INPUT	
D	1st F.M. I.F. INPUT	
E	2nd F.M. I.F. INPUT	
F	3rd F.M. I.F. INPUT	
FI	RATIO DETECTOR INPUT	
G	3rd F.M. OUTPUT	
H	F.M. DETECTOR OUTPUT	
J	F.M.-B+	
L	A.M.-R.F. & I.F. INPUT	
M	67 KHz REJECTION & PHASING	
N	DOUBLER OUTPUT D.C. & 38 KHz	
P	MX PHASING	
T	MX DISABLE	
HI	RATIO DET. PRIMARY TUNING	
AB	NOTE: TO ADJUST BIAS CONNECT A DIGITAL VOLT- METER OR ACCURATE LOW RANGE VOLT-METER ACROSS TEST POINTS AB- AC AND ADJUST R426 FOR .010 V TO .015 V. REPEAT ADJUSTMENT FOR TEST POINTS AD-AE AND ADJUST R476 FOR .010 V TO .015 V.	
AC		
AD		
AE		

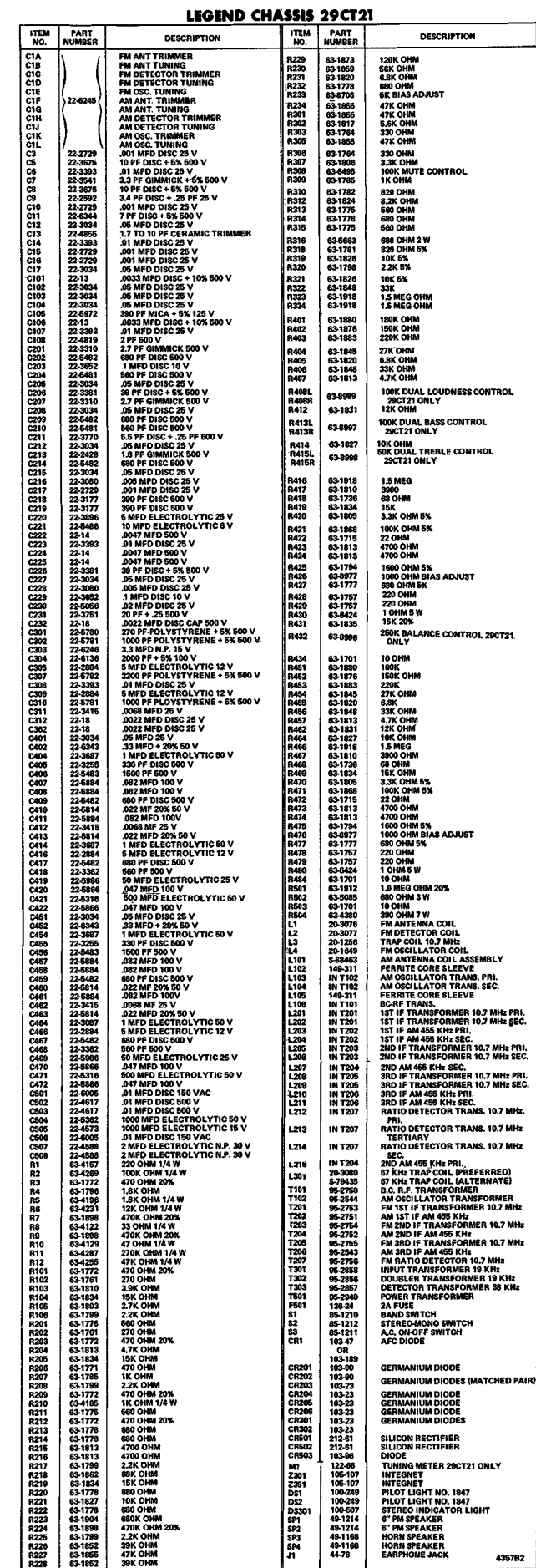




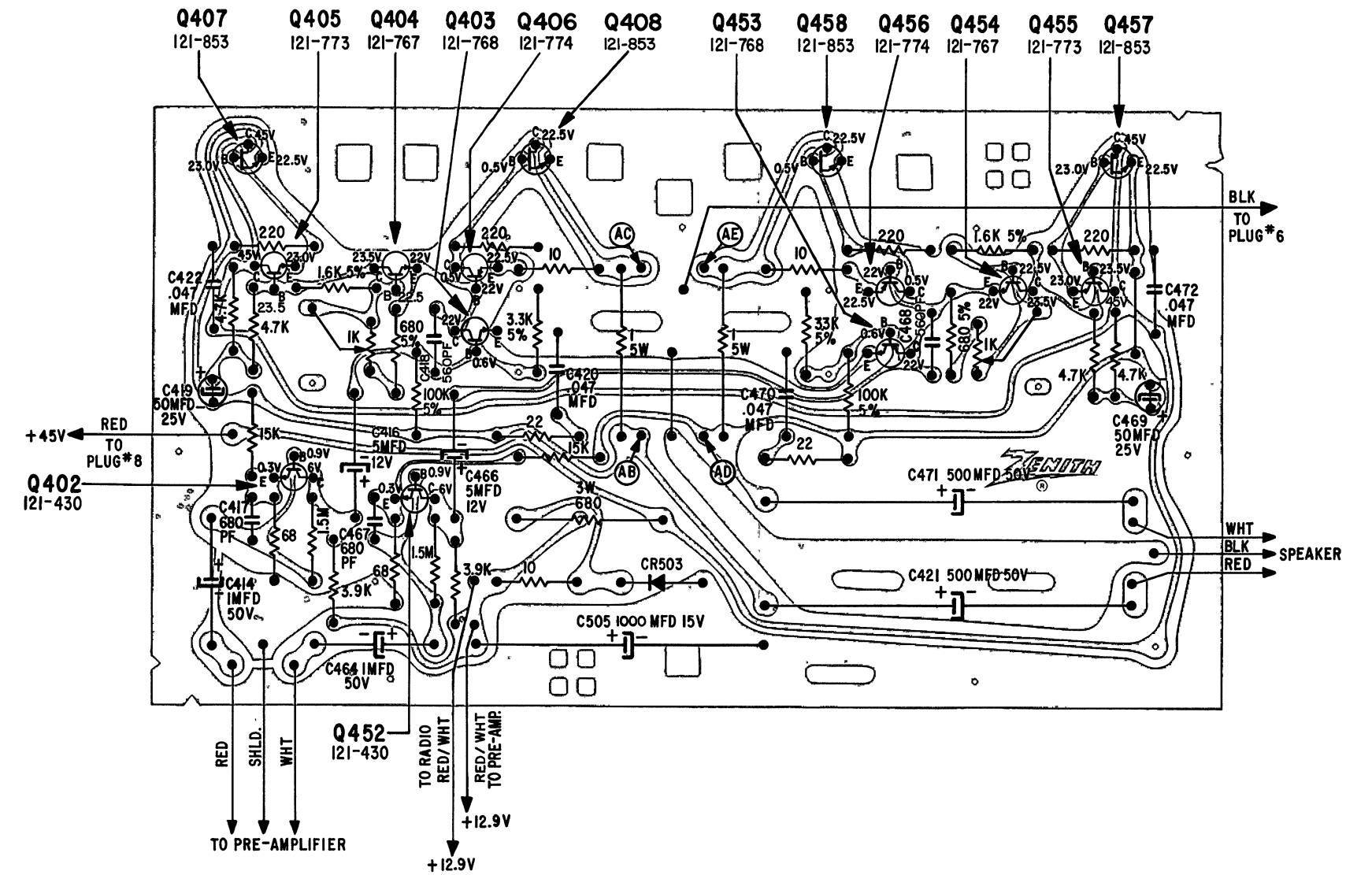
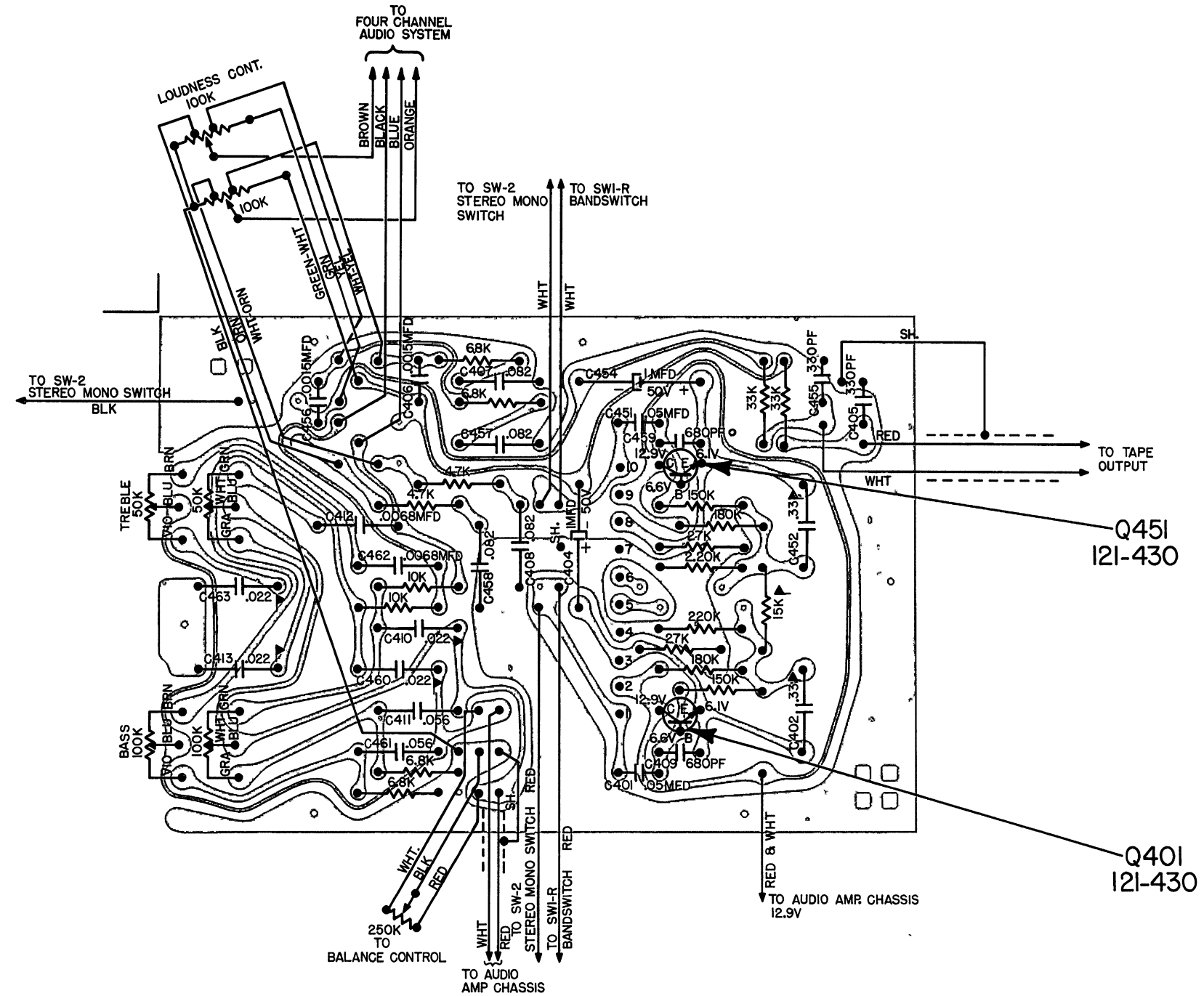
29C20 - SCHEMATIC

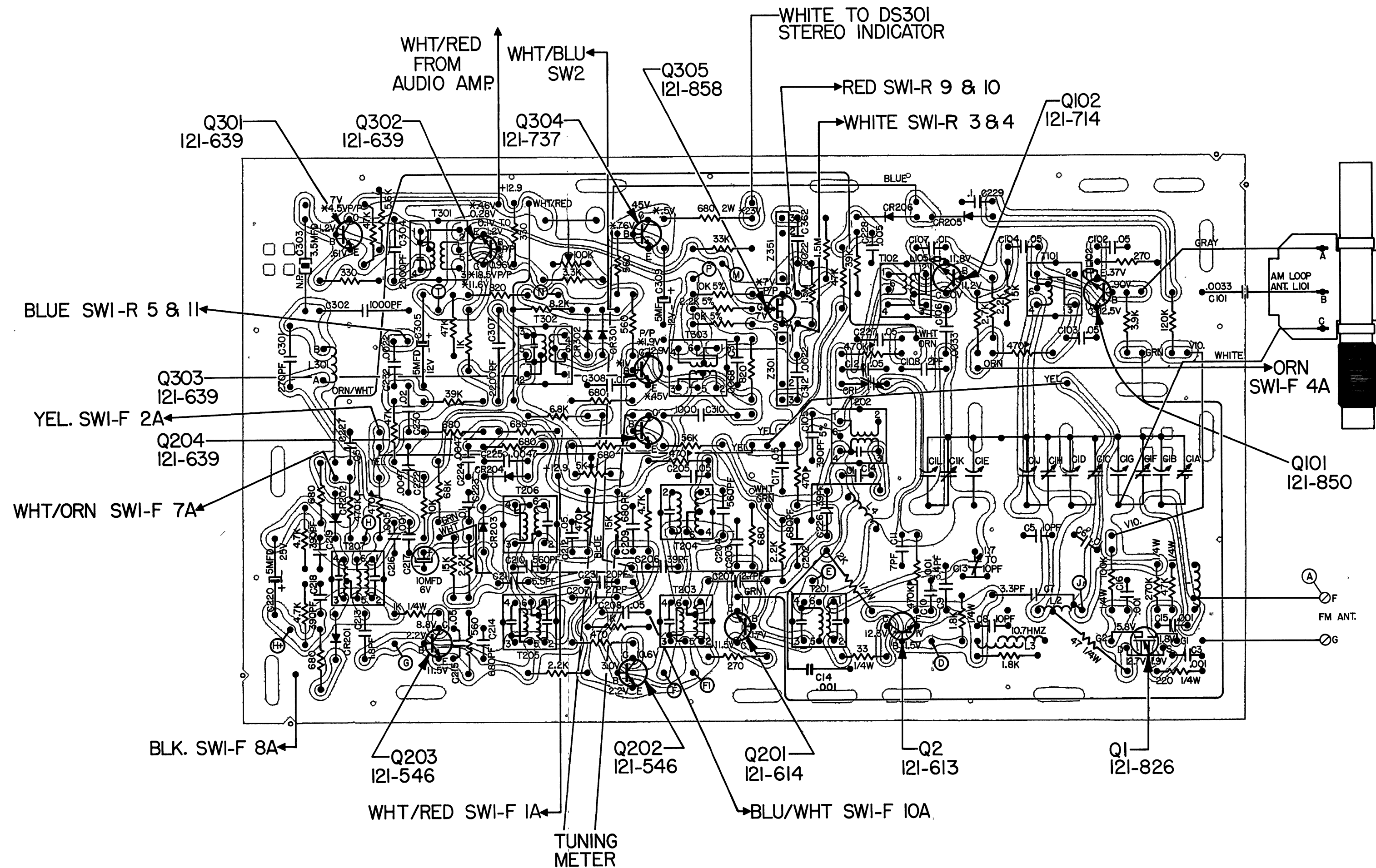
LEGEND CHASSIS 29C20

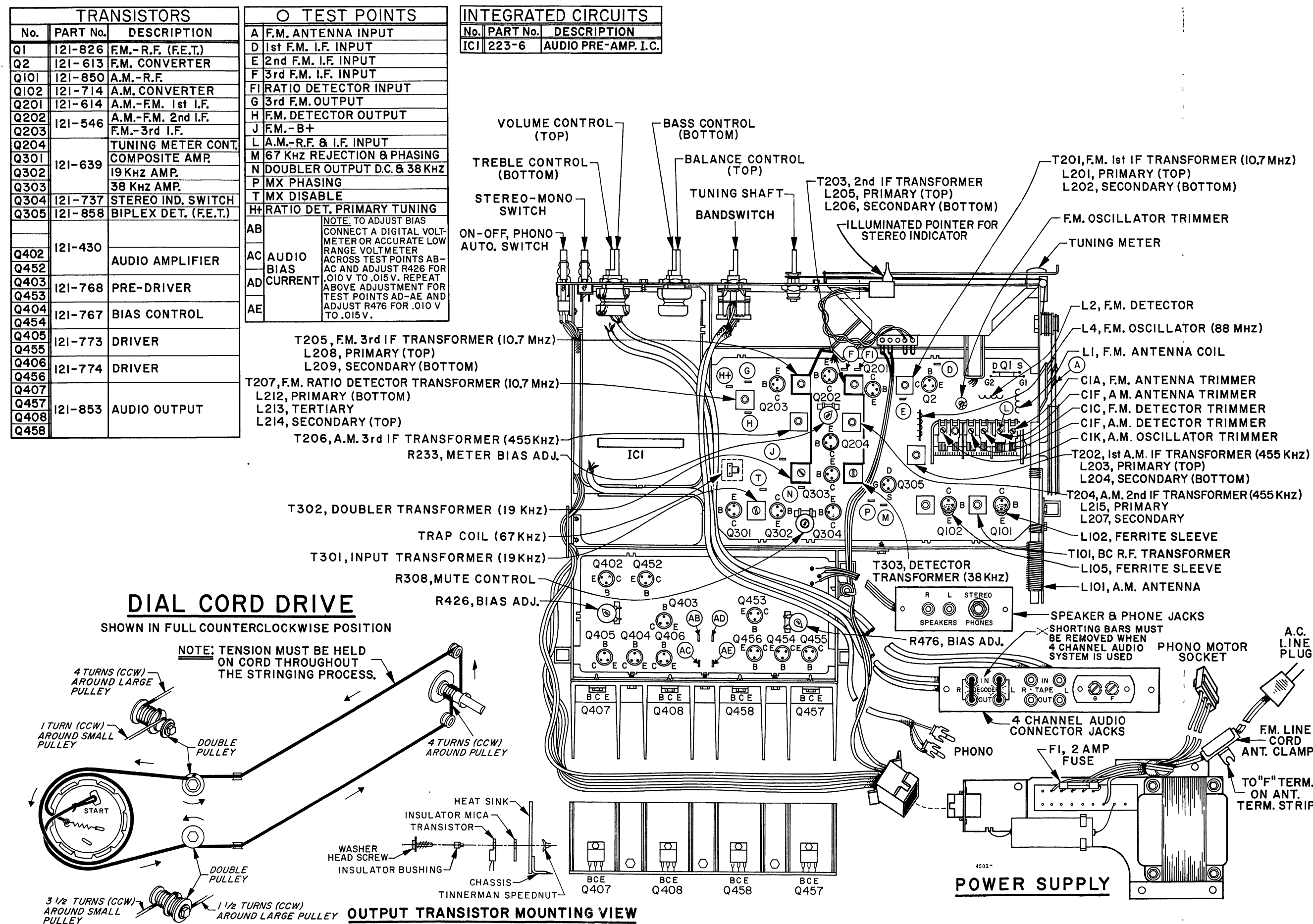
ITEM NO.	PART NUMBER	DESCRIPTION	ITEM NO.	PART NUMBER	DESCRIPTION
C1A	63-1882	FM ANT. TUNING	R226	63-1882	2K OHM
C1B	63-1882	FM DET. TUNING	R227	63-1882	2K OHM
C1C	63-1882	FM OSC. TUNING	R228	63-1882	2K OHM
C1D	63-1882	FM ANT. TUNING	R229	63-1882	2K OHM
C1E	63-1882	FM DET. TUNING	R230	63-1882	2K OHM
C1F	63-1882	FM OSC. TUNING	R231	63-1882	2K OHM
C1G	63-1882	FM ANT. TUNING	R232	63-1882	2K OHM
C1H	63-1882	FM DET. TUNING	R233	63-1882	2K OHM
C1I	63-1882	FM OSC. TUNING	R234	63-1882	2K OHM
C1J	63-1882	FM ANT. TUNING	R235	63-1882	2K OHM
C1K	63-1882	FM DET. TUNING	R236	63-1882	2K OHM
C1L	63-1882	FM OSC. TUNING	R237	63-1882	2K OHM
C1M	63-1882	FM ANT. TUNING	R238	63-1882	2K OHM
C1N	63-1882	FM DET. TUNING	R239	63-1882	2K OHM
C1O	63-1882	FM OSC. TUNING	R240	63-1882	2K OHM
C1P	63-1882	FM ANT. TUNING	R241	63-1882	2K OHM
C1Q	63-1882	FM DET. TUNING	R242	63-1882	2K OHM
C1R	63-1882	FM OSC. TUNING	R243	63-1882	2K OHM
C1S	63-1882	FM ANT. TUNING	R244	63-1882	2K OHM
C1T	63-1882	FM DET. TUNING	R245	63-1882	2K OHM
C1U	63-1882	FM OSC. TUNING	R246	63-1882	2K OHM
C1V	63-1882	FM ANT. TUNING	R247	63-1882	2K OHM
C1W	63-1882	FM DET. TUNING	R248	63-1882	2K OHM
C1X	63-1882	FM OSC. TUNING	R249	63-1882	2K OHM
C1Y	63-1882	FM ANT. TUNING	R250	63-1882	2K OHM
C1Z	63-1882	FM DET. TUNING	R251	63-1882	2K OHM
C2	63-1882	FM OSC. TUNING	R252	63-1882	2K OHM
C3	63-1882	FM ANT. TUNING	R253	63-1882	2K OHM
C4	63-1882	FM DET. TUNING	R254	63-1882	2K OHM
C5	63-1882	FM OSC. TUNING	R255	63-1882	2K OHM
C6	63-1882	FM ANT. TUNING	R256	63-1882	2K OHM
C7	63-1882	FM DET. TUNING	R257	63-1882	2K OHM
C8	63-1882	FM OSC. TUNING	R258	63-1882	2K OHM
C9	63-1882	FM ANT. TUNING	R259	63-1882	2K OHM
C10	63-1882	FM DET. TUNING	R260	63-1882	2K OHM
C11	63-1882	FM OSC. TUNING	R261	63-1882	2K OHM
C12	63-1882	FM ANT. TUNING	R262	63-1882	2K OHM
C13	63-1882	FM DET. TUNING	R263	63-1882	2K OHM
C14	63-1882	FM OSC. TUNING	R264	63-1882	2K OHM
C15	63-1882	FM ANT. TUNING	R265	63-1882	2K OHM
C16	63-1882	FM DET. TUNING	R266	63-1882	2K OHM
C17	63-1882	FM OSC. TUNING	R267	63-1882	2K OHM
C18	63-1882	FM ANT. TUNING	R268	63-1882	2K OHM
C19	63-1882	FM DET. TUNING	R269	63-1882	2K OHM
C20	63-1882	FM OSC. TUNING	R270	63-1882	2K OHM
C21	63-1882	FM ANT. TUNING	R271	63-1882	2K OHM
C22	63-1882	FM DET. TUNING	R272	63-1882	2K OHM
C23	63-1882	FM OSC. TUNING	R273	63-1882	2K OHM
C24	63-1882	FM ANT. TUNING	R274	63-1882	2K OHM
C25	63-1882	FM DET. TUNING	R275	63-1882	2K OHM
C26	63-1882	FM OSC. TUNING	R276	63-1882	2K OHM
C27	63-1882	FM ANT. TUNING	R277	63-1882	2K OHM
C28	63-1882	FM DET. TUNING	R278	63-1882	2K OHM
C29	63-1882	FM OSC. TUNING	R279	63-1882	2K OHM
C30	63-1882	FM ANT. TUNING	R280	63-1882	2K OHM
C31	63-1882	FM DET. TUNING	R281	63-1882	2K OHM
C32	63-1882	FM OSC. TUNING	R282	63-1882	2K OHM
C33	63-1882	FM ANT. TUNING	R283	63-1882	2K OHM
C34	63-1882	FM DET. TUNING	R284	63-1882	2K OHM
C35	63-1882	FM OSC. TUNING	R285	63-1882	2K OHM
C36	63-1882	FM ANT. TUNING	R286	63-1882	2K OHM
C37	63-1882	FM DET. TUNING	R287	63-1882	2K OHM
C38	63-1882	FM OSC. TUNING	R288	63-1882	2K OHM
C39	63-1882	FM ANT. TUNING	R289	63-1882	2K OHM
C40	63-1882	FM DET. TUNING	R290	63-1882	2K OHM
C41	63-1882	FM OSC. TUNING	R291	63-1882	2K OHM
C42	63-1882	FM ANT. TUNING	R292	63-1882	2K OHM
C43	63-1882	FM DET. TUNING	R293	63-1882	2K OHM
C44	63-1882	FM OSC. TUNING	R294	63-1882	2K OHM
C45	63-1882	FM ANT. TUNING	R295	63-1882	2K OHM
C46	63-1882	FM DET. TUNING	R296	63-1882	2K OHM
C47	63-1882	FM OSC. TUNING	R297	63-1882	2K OHM
C48	63-1882	FM ANT. TUNING	R298	63-1882	2K OHM
C49	63-1882	FM DET. TUNING	R299	63-1882	2K OHM
C50	63-1882	FM OSC. TUNING	R300	63-1882	2K OHM
C51	63-1882	FM ANT. TUNING	R301	63-1882	2K OHM
C52	63-1882	FM DET. TUNING	R302	63-1882	2K OHM
C53	63-1882	FM OSC. TUNING	R303	63-1882	2K OHM
C54	63-1882	FM ANT. TUNING	R304	63-1882	2K OHM
C55	63-1882	FM DET. TUNING	R305	63-1882	2K OHM
C56	63-1882	FM OSC. TUNING	R306	63-1882	2K OHM
C57	63-1882	FM ANT. TUNING	R307	63-1882	2K OHM
C58	63-1882	FM DET. TUNING	R308	63-1882	2K OHM
C59	63-1882	FM OSC. TUNING	R309	63-1882	2K OHM
C60	63-1882	FM ANT. TUNING	R310	63-1882	2K OHM
C61	63-1882	FM DET. TUNING	R311	63-1882	2K OHM
C62	63-1882	FM OSC. TUNING	R312	63-1882	2K OHM
C63	63-1882	FM ANT. TUNING	R313	63-1882	2K OHM
C64	63-1882	FM DET. TUNING	R314	63-1882	2K OHM
C65	63-1882	FM OSC. TUNING	R315	63-1882	2K OHM
C66	63-1882	FM ANT. TUNING	R316	63-1882	2K OHM
C67	63-1882	FM DET. TUNING	R317	63-1882	2K OHM
C68	63-1882	FM OSC. TUNING	R318	63-1882	2K OHM
C69	63-1882	FM ANT. TUNING	R319	63-1882	2K OHM
C70	63-1882	FM DET. TUNING	R320	63-1882	2K OHM
C71	63-1882	FM OSC. TUNING	R321	63-1882	2K OHM
C72	63-1882	FM ANT. TUNING	R322	63-1882	2K OHM
C73	63-1882	FM DET. TUNING	R323	63-1882	2K OHM
C74	63-1882	FM OSC. TUNING	R324	63-1882	2K OHM
C75	63-1882	FM ANT. TUNING	R325	63-1882	2K OHM
C76	63-1882	FM DET. TUNING	R326	63-1882	2K OHM
C77	63-1882	FM OSC. TUNING	R327	63-1882	2K OHM
C78	63-1882	FM ANT. TUNING	R328	63-1882	2K OHM
C79	63-1882	FM DET. TUNING	R329	63-1882	2K OHM
C80	63-1882	FM OSC. TUNING	R330	63-1882	2K OHM
C81	63-1882	FM ANT. TUNING	R331	63-1882	2K OHM
C82	63-1882	FM DET. TUNING	R332	63-1882	2K OHM
C83	63-1882	FM OSC. TUNING	R333	63-1882	2K OHM
C84	63-1882	FM ANT. TUNING	R334	63-1882	2K OHM
C85	63-1882	FM DET. TUNING	R335	63-1882	2K OHM
C86	63-1882	FM OSC. TUNING	R336	63-1882	2K OHM
C87	63-1882	FM ANT. TUNING	R337	63-1882	2K OHM
C88	63-1882	FM DET. TUNING	R338	63-1882	2K OHM
C89	63-1882	FM OSC. TUNING	R339	63-1882	2K OHM
C90	63-1882	FM ANT. TUNING	R340	63-1882	2K OHM
C91	63-1882	FM DET. TUNING	R341	63-1882	2K OHM
C92	63-1882	FM OSC. TUNING	R342	63-1882	2K OHM
C93	63-1882	FM ANT. TUNING	R343	63-1882	2K OHM
C94	63-1882	FM DET. TUNING	R344	63-1882	2K OHM
C95	63-1882	FM OSC. TUNING	R345	63-1882	2K OHM
C96	63-1882	FM ANT. TUNING	R346	63-1882	2K OHM
C97	63-1882	FM DET. TUNING	R347	63-1882	2K OHM
C98	63-1882	FM OSC. TUNING	R348	63-1882	2K OHM
C99	63-1882	FM ANT. TUNING	R349	63-1882	2K OHM
C100	63-1882	FM DET. TUNING	R350	63-1882	2K OHM
C101	63-1882	FM OSC. TUNING	R351	63-1882	2K OHM
C102	63-1882	FM ANT. TUNING	R352	63-1882	2K OHM
C103	63-1882	FM DET. TUNING	R353	63-1882	2K OHM
C104	63-1882	FM OSC. TUNING	R354	63-1882	2K OHM
C105	63-1882	FM ANT. TUNING	R355	63-1882	2K OHM
C106	63-1882	FM DET. TUNING	R356	63-1882	2K OHM
C107	63-1882	FM OSC. TUNING	R357	63-1882	2K OHM
C108	63-1882	FM ANT. TUNING	R358	63-1882	2K OHM
C109	63-1882	FM DET. TUNING	R359	63-1882	2K OHM
C110	63-1882	FM OSC. TUNING	R360	63-1882	2K OHM
C111	63-1882	FM ANT. TUNING	R361	63-1882	2K OHM
C112	63-1882	FM DET. TUNING	R362	63-1882	2K OHM
C113	63-1882	FM OSC. TUNING	R363	63-1882	2K OHM
C114	63-1882	FM ANT. TUNING	R364	63-1882	2K OHM
C115	63-1882	FM DET. TUNING	R365	63-1882	2K OHM
C116	63-1882	FM OSC. TUNING	R366	63-1882	2K OHM
C117	63-1882	FM ANT. TUNING	R367	63-1882	2K OHM
C118	63-1882	FM DET. TUNING	R368	63-1882	2K OHM
C119	63-1882	FM OSC. TUNING	R369	63-1882	2K OHM
C120	63-1882	FM ANT. TUNING	R370	63-1882	2K OHM
C121	63-1882	FM DET. TUNING	R371	63-1882	2K OHM
C122	63-1882	FM OSC. TUNING	R372	63-1882	2K OHM
C123	63-1882	FM ANT. TUNING	R373	63-1882	2K OHM
C124	63-1882	FM DET. TUNING	R374	63-1882	2K OHM
C125	63-1882	FM OSC. TUNING	R375	63-1882	2K OHM
C126	63-1882	FM ANT. TUNING	R376	63-1882	2K OHM
C127	63-1882	FM DET. TUNING	R377	63-1882	2K OHM
C128	63-1882	FM OSC. TUNING	R378	63-1882	2K OHM
C129	63-1882	FM ANT. TUNING	R379	63-1882	2K OHM
C130	63-1882	FM DET. TUNING	R380	63-1882	2K OHM
C131	63-1882	FM OSC. TUNING	R381	63-1882	2K OHM
C132	63-1882	FM ANT. TUNING	R382	63-1882	2K OHM
C133	63-1882	FM DET. TUNING	R383	63-1882	2K OHM
C134	63-1882	FM OSC. TUNING	R384	63-1882	2K OHM
C135	63-1882	FM ANT. TUNING	R385	63-1882	2K OHM
C136	63-1882	FM DET. TUNING	R386	63-1882	2K OHM
C137	63-1882	FM OSC. TUNING	R387	63-1882	2K OHM
C138	63-1882	FM ANT. TUNING	R388	63-1882	2K OHM
C139	63-1882	FM DET. TUNING	R389	63-1882	2K OHM
C140	63-1882	FM OSC. TUNING	R390	63-1882	2K OHM
C141	63-1882	FM ANT. TUNING	R391	63-1882	2K OHM
C142	63-1882	FM DET. TUNING	R392	63-1882	2K OHM
C143	63-1882	FM OSC. TUNING	R393	63-1882	2K OHM
C144	63-1882	FM ANT. TUNING	R394	63-1882	2K OHM
C145	63-1882	FM DET. TUNING	R395	63-1882	2K OHM
C146	63-1882	FM OSC. TUNING	R396	63-1882	2K OHM
C147	63-1882	FM ANT. TUNING	R397	63-1882	2K OHM
C148	63-1882	FM DET. TUNING	R398	63-1882	2K OHM
C149	63-1882	FM OSC. TUNING	R399	63-1882	2K OHM
C150	63-1882	FM ANT. TUNING	R400	63-1882	2K OHM
C151	63-1882	FM DET. TUNING	R401	63-1882	2K OHM
C152	63-1882	FM OSC. TUNING	R402	63-1882	2K OHM
C153	63-1882	FM ANT. TUNING	R403	63-1882	2K OHM
C154	63-1882	FM DET. TUNING	R404	63-1882	2K

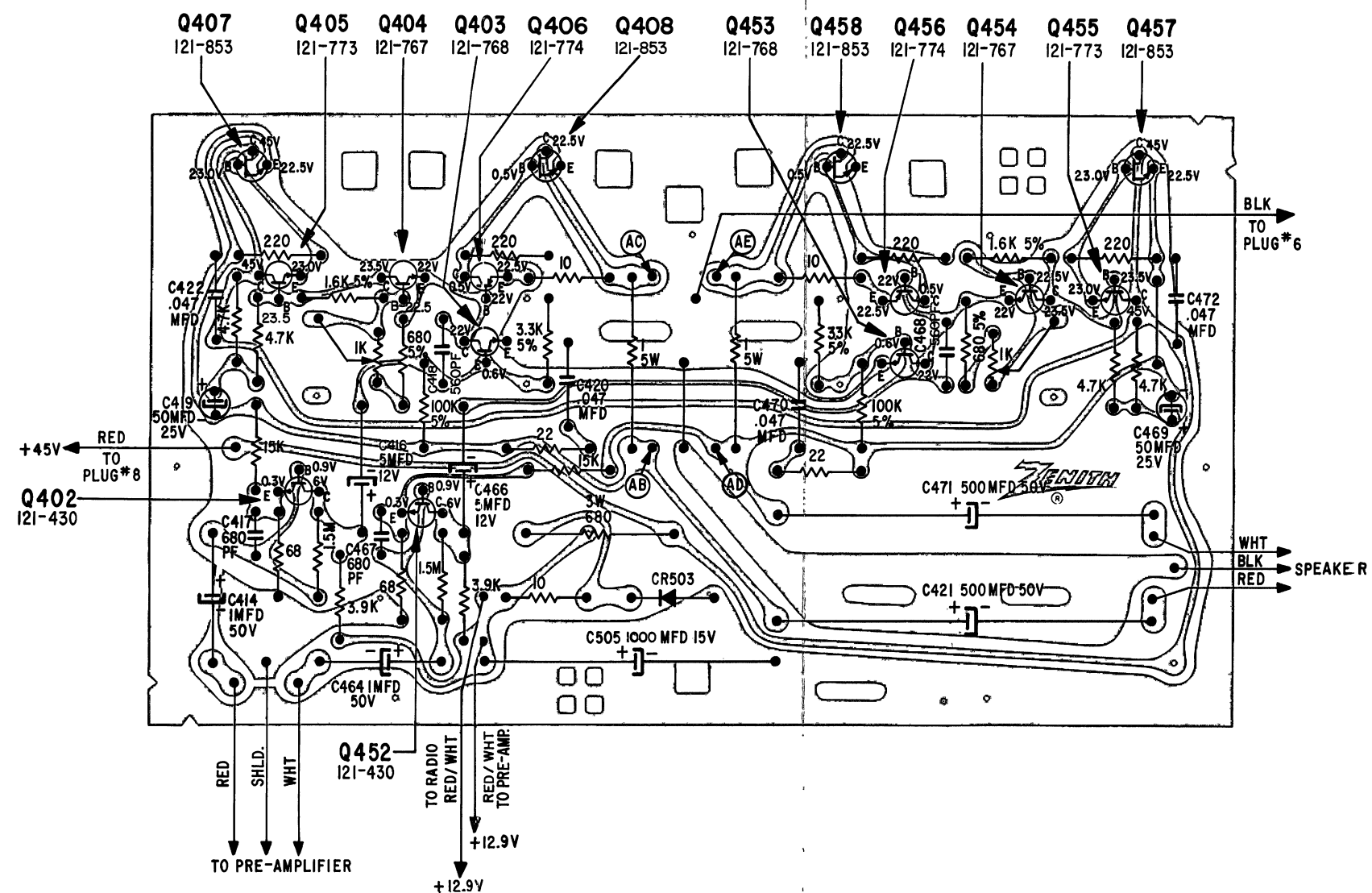
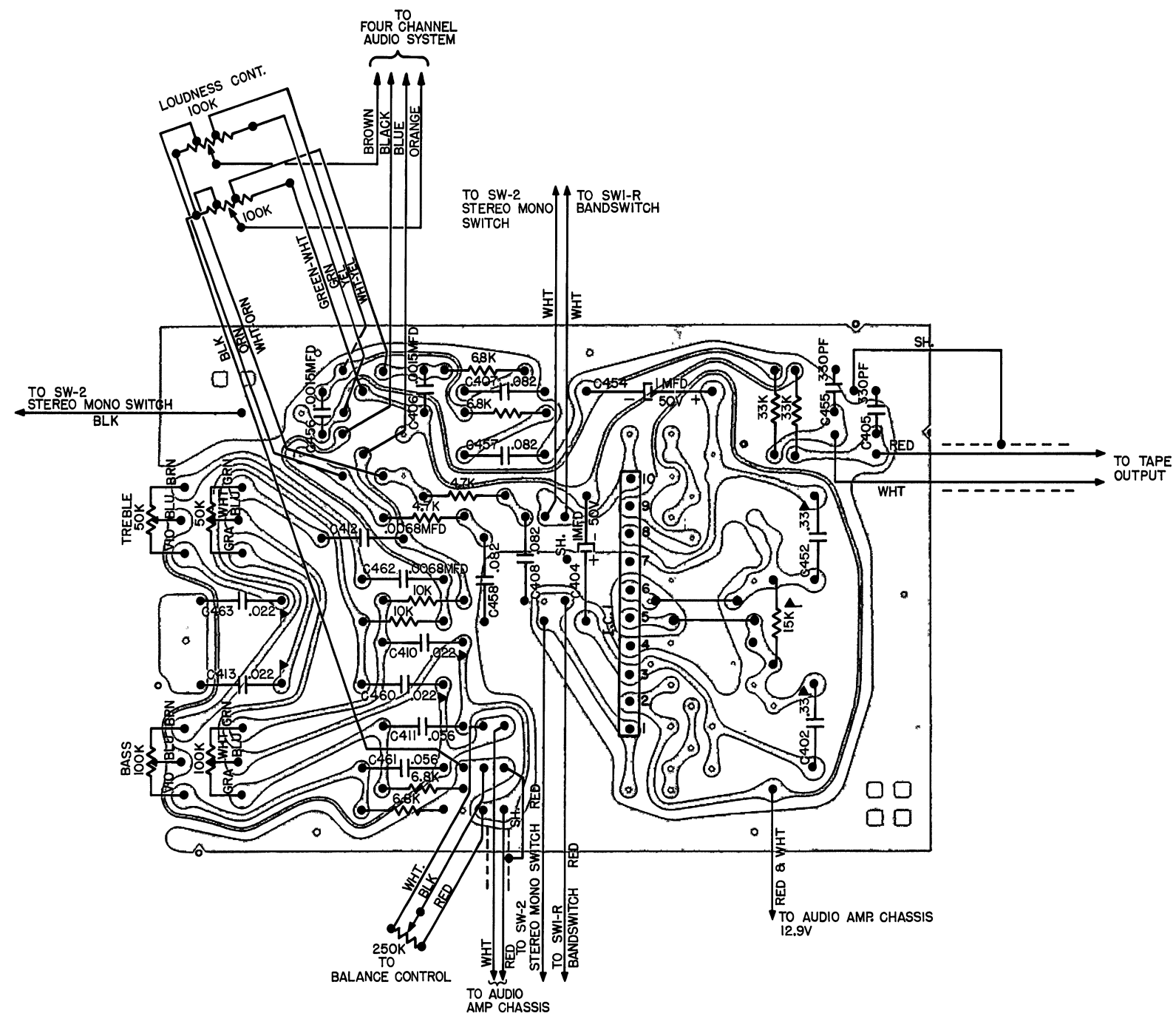


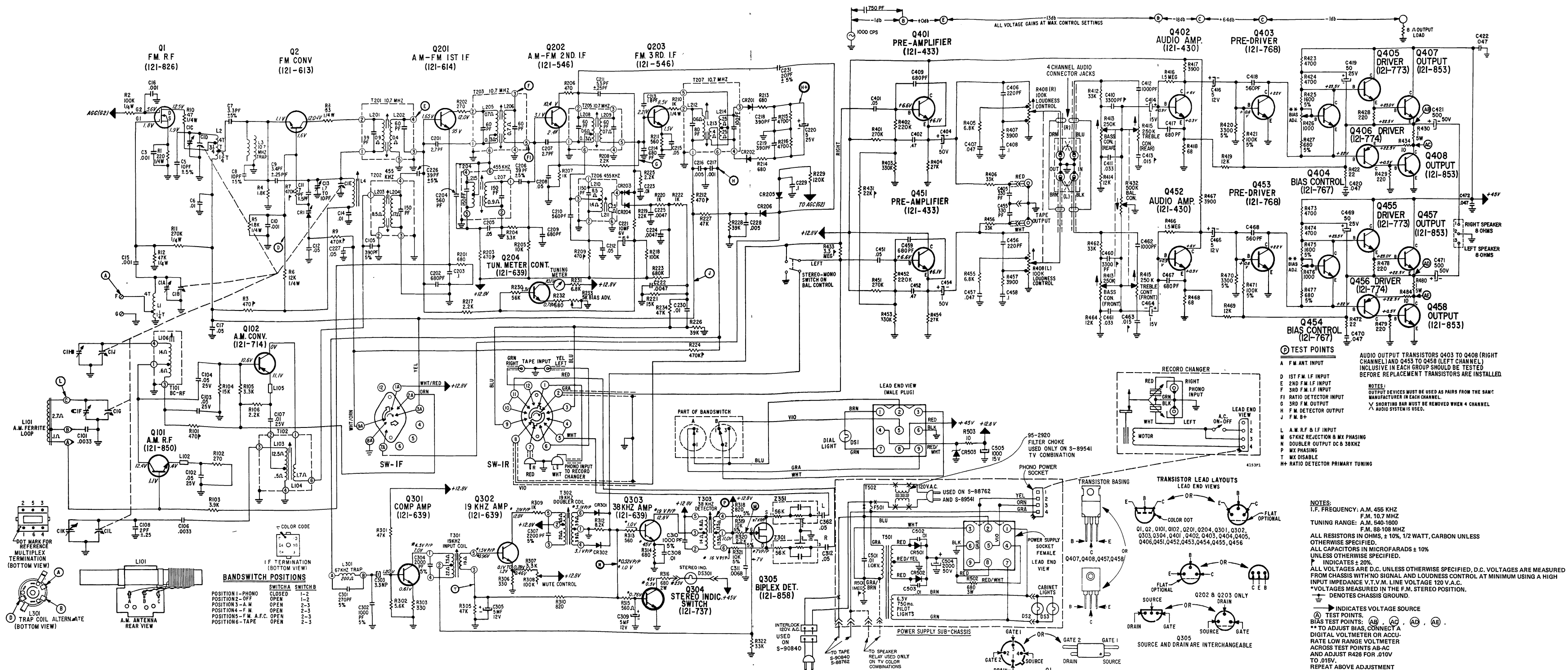
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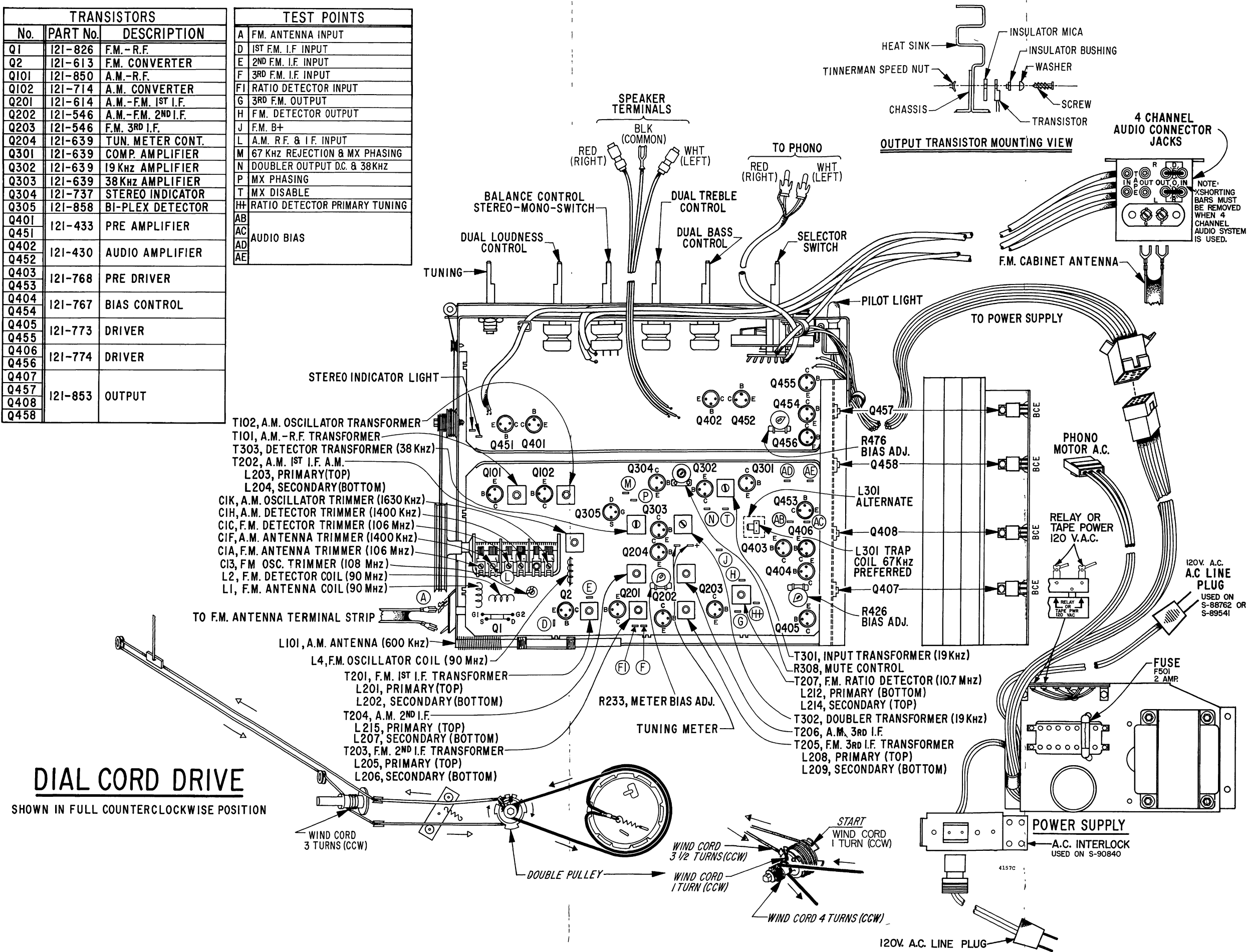
29CT30 - SCHEMATIC

ITEM NO.	PART NUMBER	DESCRIPTION	ITEM NO.	PART NUMBER	DESCRIPTION
C18		FM ANT TRIMMER	R219	63-1841	22K OHM
C19		FM ANT TUNING	R220	63-1785	1K OHM
C20		FM DETECTOR TRIMMER	R1221	63-1821	50K OHM
C21		FM DETECTOR TUNING	R222	63-1785	1K OHM
C10		FM OSC TUNING	R223	63-1900	500K OHM
C1F	22-6245	AM ANT. TRIMMER	R224	63-1898	470K OHM 20%
C1G		AM ANT. TUNING	R225	63-1769	2.2K OHM
C1H		AM DETECTOR TRIMMER	R226	63-1821	50K OHM
C1I		AM DETECTOR TUNING	R227	63-1855	47K OHM
C8		AM OSC. TRIMMER	R228	63-1852	50K OHM
C1L		AM OSC. TUNING	R229	63-1873	120K OHM
C22-2729		.001 MFD DISC 25 V	R230	63-1855	56K OHM
C22-2730		10 PF DISC 500 V	R231	63-1820	50K OHM
C22-3363		1/16 MFD DISC 25 V	R232	63-1778	60K OHM
C22-3541		3.3 PF DISC .5% 500 V	R233	63-1778	60K OHM
C22-3578		10 PF DISC .5% 500 V	R234	63-1886	47K OHM
C22-2692		3 PF DISC .25 PF 500 V	R235	63-1801	50K OHM
C22-2722		.01 MFD DISC 25 V	R236	63-1817	5.6K OHM
C11	22-6344	2.2 PF .5 PF 500 V	R302	63-1764	330 OHM
C12	22-3034	.05 MFD DISC 25 V	R303	63-1855	47K OHM
C22-6865		1.7 K OHM CERAMIC TRIMMER	R306	63-1764	330 OHM
C22-3393		.01 MFD DISC 25 V	R307	63-1855	47K OHM
C22-3394		.01 MFD DISC 25 V	R308	63-1855	47K OHM
C22-3395		.01 MFD DISC 25 V	R309	63-1855	47K OHM
C22-3396		.01 MFD DISC 25 V	R310	63-1855	47K OHM
C101	22-113	.0033 MFD DISC + 10%	R312	63-1824	8.2K OHM
C102	22-3034	.05 MFD DISC 25 V	R313	63-1778	60K OHM
C103	22-3034	.05 MFD DISC 25 V	R314	63-1778	60K OHM
C104	22-3034	.05 MFD DISC 25 V	R315	63-1778	60K OHM
C22-6872		300 PF 100 V + 5% 125 V	R316	63-1855	47K OHM
C106	22-113	.0033 MFD DISC + 10%	R318	63-1781	820 OHM 5%
C22-3393		.01 MFD DISC 25 V	R319	63-1826	10K 5%
C22-6819		2 PF .25 500 V	R320	63-1788	2.2K 5%
C22-3310		2.2 PF GIMMICK 500 V	R321	63-1826	10K 5%
C22-6462		680 PF DISC 500 V	R322	63-1722	50K OHM
C201	22-3852	1 MFD DISC 10 V	R401	63-1897	270K OHM
C22-6461		680 PF DISC 500 V	R402	63-1897	270K OHM
C22-3004		.05 MFD DISC 25 V	R403	63-1890	330K OHM
C22-3381		39 PF DISC .5% 500 V	R404	63-1890	330K OHM
C22-3310		2.2 PF GIMMICK 500 V	R405	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R406	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R407	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R408	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R409	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R410	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R411	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R412	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R413	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R414	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R415	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R416	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R417	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R418	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R419	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R420	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R421	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R422	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R423	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R424	63-1820	56K OHM
C22-3034		.05 MFD DISC 25 V	R425	63-1820	56K OHM
C22-3034		.05 MFD DISC			

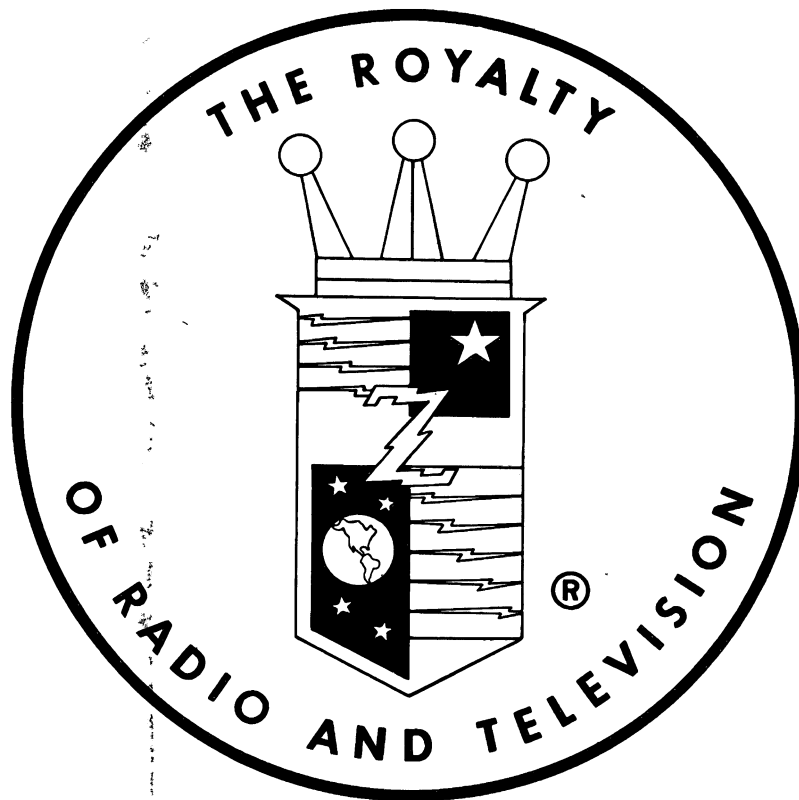


TRANSISTORS		
No.	PART No.	DESCRIPTION
Q1	I21-826	F.M.-R.F.
Q2	I21-613	F.M. CONVERTER
Q101	I21-850	A.M.-R.F.
Q102	I21-714	A.M. CONVERTER
Q201	I21-614	A.M.-F.M. 1ST I.F.
Q202	I21-546	A.M.-F.M. 2ND I.F.
Q203	I21-546	F.M. 3RD I.F.
Q204	I21-639	TUN. METER CONT.
Q301	I21-639	COMP. AMPLIFIER
Q302	I21-639	19KHz AMPLIFIER
Q303	I21-639	38KHz AMPLIFIER
Q304	I21-737	STEREO INDICATOR
Q305	I21-858	BI-PLEX DETECTOR
Q401	I21-433	PRE AMPLIFIER
Q451		
Q402	I21-430	AUDIO AMPLIFIER
Q452		
Q403	I21-768	PRE DRIVER
Q453		
Q404	I21-767	BIAS CONTROL
Q454		
Q405	I21-773	DRIVER
Q455		
Q406	I21-774	DRIVER
Q456		
Q407		
Q457		
Q408	I21-853	OUTPUT
Q458		

TEST POINTS	
A	FM. ANTENNA INPUT
D	1ST F.M. I.F. INPUT
E	2ND F.M. I.F. INPUT
F	3RD F.M. I.F. INPUT
FI	RATIO DETECTOR INPUT
G	3RD F.M. OUTPUT
H	F.M. DETECTOR OUTPUT
J	F.M. B+
L	A.M. R.F. & I.F. INPUT
M	67 KHz REJECTION & MX PHASING
N	DOUBLER OUTPUT D.C. & 38KHz
P	MX PHASING
T	MX DISABLE
HH	RATIO DETECTOR PRIMARY TUNING
AB	
AC	AUDIO BIAS
AD	
AE	







ZENITH RADIO CORPORATION

1900 N. AUSTIN AVENUE

CHICAGO, ILLINOIS 60639

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE